# SERVICE MANUAL

model 2252

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#### 1. INTRODUCTION

This service manual was prepared for use by Authorized Warranty Stations and contains service information for Marantz Model 2252 Stereophonic Receiver.

Servicing information and voltage data included in this manual are intended for use by the knowledgeable and experienced technician only. All instructions should be read carefully. No attempt should be made to proceed without a good understanding of the operations in the receiver.

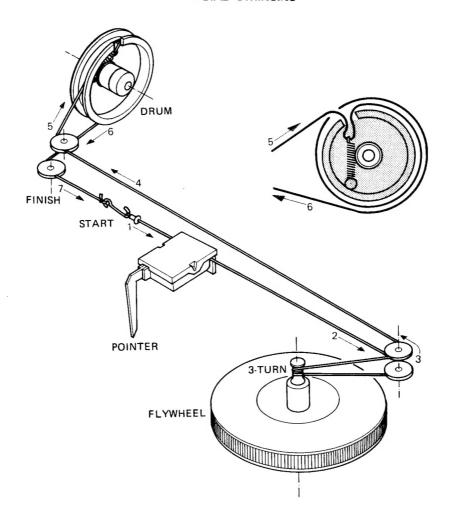
The parts list furnishes information by which replacement parts may be ordered from the Marantz Company. A simple description is included for parts which can usually be obtained through local suppliers.

#### 2. SERVICE NOTES

As can be seen from the circuit diagram, the chassis of Model 2252 consists of the following units. Each unit mounted on a printed circuit board is described within the square enclosed by a bold dotted line on the circuit diagram.

	1. FM Front End mounted on P.W.B.	P 100
:	2. FM and AM Tuner mounted on P.W.B.	P 200
	3. EQ Amplifier mounted on P.W.B.	P 400
•	4. Tone Amplifier mounted on P.W.B.	PE 01
,	5. Dolby FM, Tape Monitor, Mono	
	and High Filter Switch Unit mounted on P.W.B.	PH01
(	6. Loudness, Muting and Speaker	
	Switch Unit mounted on P.W.B.	PT 01
	7. Power Amplifiermounted on P.W.B.	P 700
1	8. Power Supplymounted on P.W.B.	P800
•	9. Dial Lamp Unitmounted on P.W.B.	PZ01

## DIAL STRINGING



## 3. TEST EQUIPMENT REQUIRED FOR SERVICING

Table 1 lists the test equipment required for servicing the Model 2252 Receiver.

Item	Manufacturer and Model No.	Use
AM Signal Generator		Signal source for AM alignment
Test Loop		Use with AM Signal Generator
FM Signal Generator MPX Signal Generator	Sound Technology Model 1000A	Signal source for FM alignment Stereo separation alignment and trouble shooting
Distortion Analyzer		Distortion measurements
Audio Oscillator AC VTVM	Sound Technology Model 1700A	Sinewave and squarewave signal source voltage measurements (AC)
Oscilloscope	Tektronix Model T932 Philips Model 3232	Waveform analysis and trouble shooting and ASO alignment
Frequency Counter	Fluke Model 1900A	MPX Oscillator adjustment (VCO)
Circuit Tester		Trouble shooting
DC VTVM	Fluke Model 8000 "Digital" Simpson Model 313, Triplet Model 801	Voltage measurements (DC)
AC Wattmeter	Simpson Model 1379	Monitors primary power to amplifier
AC Ammeter	Commercial Grade (1-10A)	Monitors amplifier output under short circuit condition
Line Voltmeter	Simpson Model 1359	Monitors potential of primary power to amplifier
Variable Autotransformer	Superior Electronic Co., Powerstat Model 116B-10A	Adjusts level of primary power to amplifier
Shorting Plug	Use phono plug with 600 ohm across center pin and shell	Shorts amplifier input to eliminate noise pickup
Output Load (8 ohms, 0.5%, 100W)	Commercial Grade	Provides 8-ohm load for amplifier output termination
Output Load (4 ohms, 0.5% 100W)	Commercial Grade	Provides 4-ohm load for amplifier output termination

## 4. AM ALIGNMENT PROCEDURE

#### 4.1 AM IF ALIGNMENT

- Connect a sweep generator to the L153 and an alignment scope to the resistor R162 (out side).
- Rotate each core of IF transformers L155 and L156 for the maximum height and flat top symmetrical response.

# 4.2 AM FREQUENCY RANGE AND TRACKING ALIGNMENT

- Set AM signal generator to 515 kHz. Turn the tuning capacitor fully closed (place the tuning pointer at the low end) and adjust the oscillator coil L154 for maximum audio output.
- Set the signal generator to 1650 kHz. Place the tuning pointer in the high frequency end and adjust the oscillator trimmer on the oscillator tuning capacitor for maximum audio output.



- Repeat steps 1 and 2 until no further adjustment is necessary.
- Set the generator to 600 kHz, tune the receiver to the same frequency and adjust a slug core of AM ferrite rod antenna for maximum output.
- Set the generator to 1400 kHz and tune the receiver to the same frequency and adjust the trimming capacitor on the antenna tuning capacitor for maximum output.
- Repeat procedures 4 and 5 until no further adjustment is necessary.

#### NOTE

During tracking alignment reduce the signal generator output as necessary to avoid AGC action.

#### 5. FM ALIGNMENT PROCEDURE

- Connect an FM signal generator to the FM antenna terminals and an oscilloscope and an audio distortion analyzer to the tape output jack on the rear panel.
- Set the FM SG to 87.4 MHz and provide about 3 to 5μV. Place the tuning pointer at the low frequency end by rotating the tuning knob and adjust the pitch of oscillator coil L107 to obtain maximum audio output.
- 3. Set the FM SG to 109 MHz and provide about 3 to  $5\mu$ V. Rotate the tuning knob and place the tuning pointer at the high frequency end and adjust the trimming capacitor C121 for maximum output.
- Repeat steps 2 and 3 until no further adjustment is necessary.
- Set the FM SG to 90 MHz and tune the receiver to the same frequency. Decrease signal generator output until the audio output level decreases with the decreasing generator output. Adjust the pitch of ANTENNA coil L102 and RF coil L104 for maximum output.
- Set the FM SG to 106 MHz and tune the receiver to the same frequency. Decrease the signal generator output until the audio output level decreases with the decreasing generator output. Adjust the trimming capacitors of ANTENNA and RF tuning circuits for maximum output.
- Repeat steps 5 and 6 until no further adjustment is necessary.
- 8. Adjust the primary core (lower core) of discriminator transformer L202 so that the center tuning meter pointer indicates its center at no signal applied. Set the FM SG to 98 MHz and increase its output level 1 KμVand tune the receiver to the same frequency so

that the center tuning meter pointer indicates its center. Adjust the secondary core (upper core) of L202 for minimum distortion.

#### 6. STEREO SEPARATION ALIGNMENT

- 1. Set the FM SG to provide 1  $K\mu V$  at 98 MHz. Tune the receiver to the same frequency so that the center tuning meter pointer indicates its center. Then turn off the modulation of the FM SG, connect a frequency counter to test point J229 and adjust R301 so that the frequency counter may precisely read 76 kHz.
- Modulate the FM SG with stereo composite signal consisting of only L or R channel (of course a pilot signal must be included).
- Adjust the trimming resistor R317 for maximum and same separation in both channels.

#### 7. MUTING THRESHOLD ADJUSTMENT

Set the FM SG output to provide  $12.5\mu V$  (IHF) at 98 MHz and tune receiver to the same frequency. Adjust the trimming resistor R212 for the threshold level of  $12.5\mu V$ . (During this adjustment turn the MUTING pushswitch "on".)

#### 8. FM DOLBY LEVEL ADJUSTMENT

- 1. Set the FM SG to provide a 400 Hz, 50% modulated 98 MHz mono signal, at 1  $K\mu V$  output. Precisely tune the receiver to 98 MHz.
- Depress the FM DOLBY pushswitch, and adjust R215 until the outputs of both channels are 580mV.

#### 9. POWER AMPLIFIER ADJUSTMENT

Connect a VTVM between J726(+) and J723(-) and adjust the trimming resistor R731 until the VTVM reads 8mV DC. And next, connect a VTVM between J723 and J709 (GROUND) and adjust the trimming resistor R711 until the VTVM reads 0 mV DC. Do over again. For the other channel, connect the VTVM between J727(+) and J722(-) and adjust the R732 for the same reading, and connect the VTVM between J722 and J709 and adjust the R712 for the same reading. Do over again.

#### 10. POWER SUPPLY ADJUSTMENT

Connect a VTVM between J805(+) and J814(-) and adjust R808 until the VTVM reads 35.0 V under no signal condition.

## EUROPEAN MODEL ONLY

## 11. VOLTAGE CONVERSION

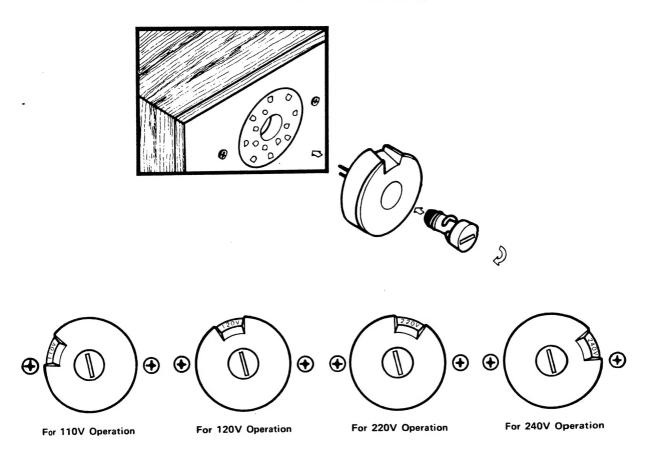
This Model is equipped with a universal power transformer to permit operation at 110, 120, 220 and 240 V AC 50/60 Hz.

To convert the unit to the required voltage, set the plug as illustrated so that you can adjust the voltage as required.

#### CAUTION

DISCONNECT POWER SUPPLY CORD FROM AC OUTLET BEFORE CONVERTING VOLTAGE.

#### 11.1 VOLTAGE CONVERSION CHART



## 12. FTZ REGULATION

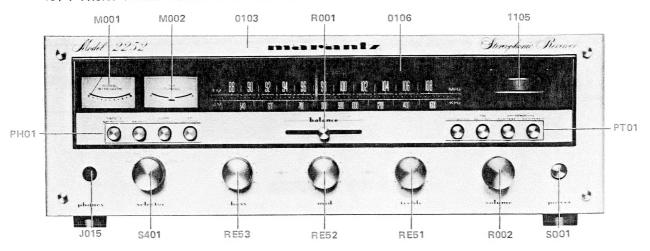
Instruction for the use in the range other than specified in FTZ codes.

Achtung für die Leute, die in dem Gebiet wohnen, wo die FTZ-Bestimmungen vorherrschend sind.

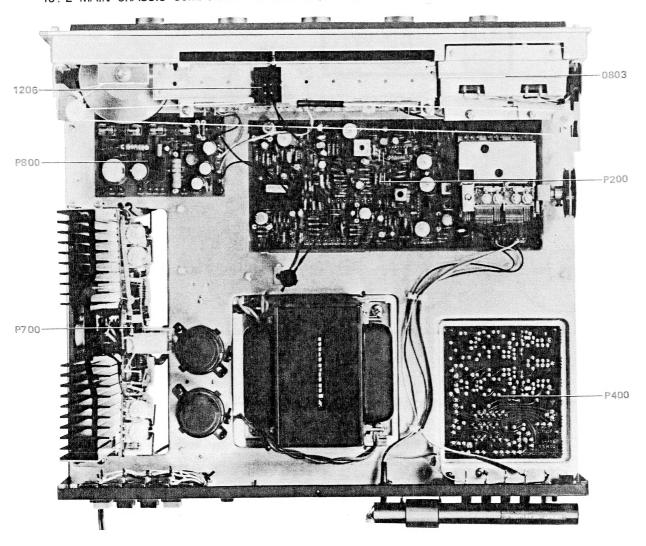
Sollte das Gerät auch für Frequenzen auszerhalb des in den FTZ-Bestimmungen angegebenen Bereiches empfangebereit sein, bitten wir, den Bereich durch Nachstellen des Kernes in der Oszillatorspule (in der Abbildung mit "FTZ" gekennzeichnet) so zu korrigieren, dass er den Bestimmungen entspricht.

## 13. MAJOR COMPONENT LOCATIONS

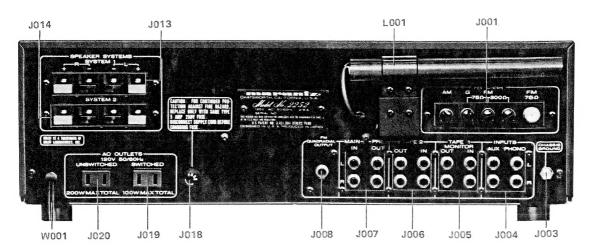
## 13. 1 FRONT PANEL ADJUSTMENT AND COMPONENT LOCATIONS



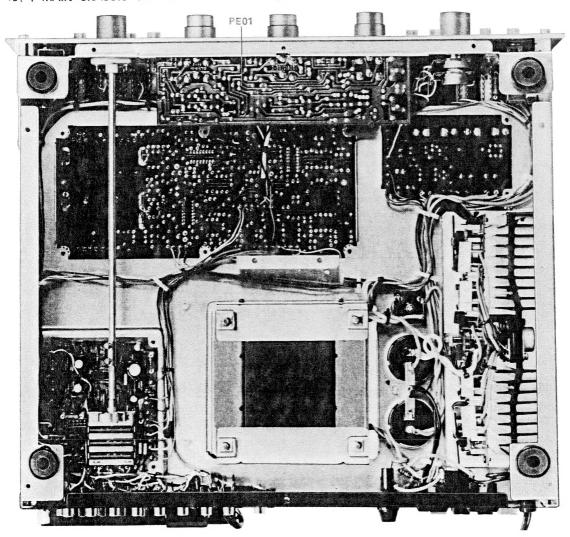
## 13.2 MAIN CHASSIS COMPONENT LOCATIONS (TOP VIEW)



## 13. 3 REAR PANEL ADJUSTMENT AND COMPONENT LOCATIONS

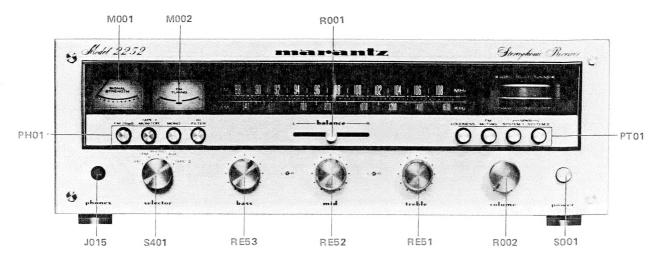


## 13. 4 MAIN CHASSIS COMPONENT LOCATIONS (BOTTOM VIEW)

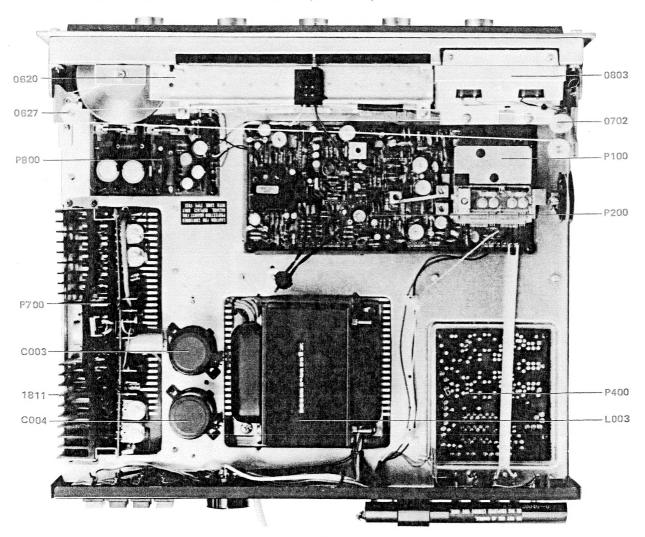


## • EUROPEAN MODEL

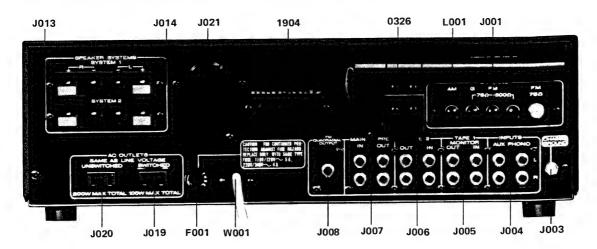
## 13. 5 FRONT PANEL ADJUSTMENT AND COMPONENT LOCATIONS



## 13. 6 MAIN CHASSIS COMPONENT LOCATIONS (TOP VIEW)



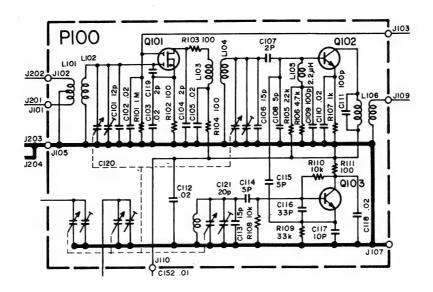
## 13. 7 REAR PANEL ADJUSTMENT AND COMPONENT LOCATIONS

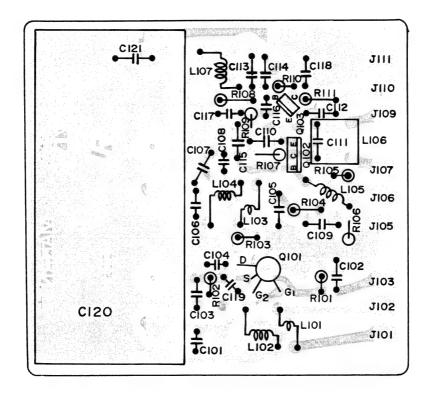




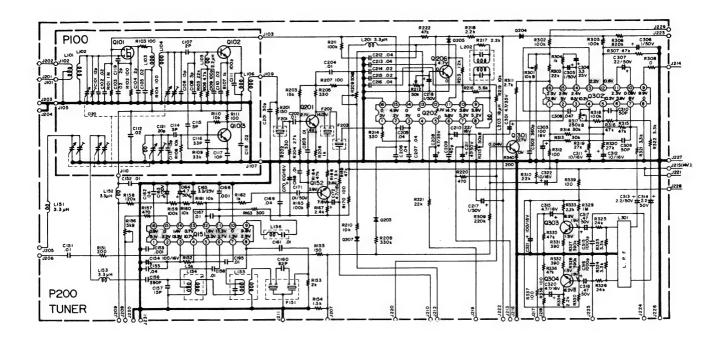
## 14. DIAGRAM AND COMPONENT LOCATIONS

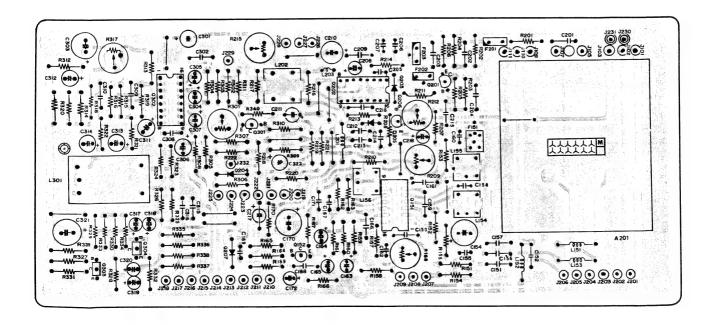
14. 1 FM FRONT END ASSEMBLY(P100) SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS



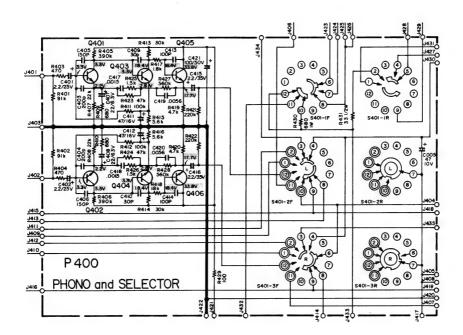


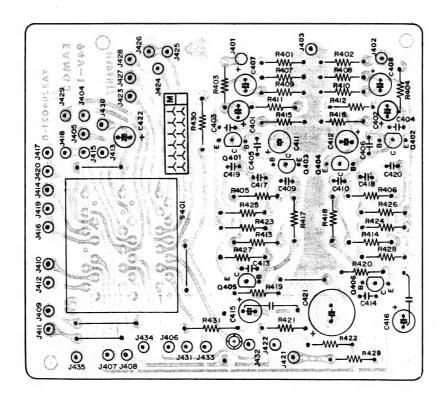
## 14. 2 TUNER ASSEMBLY(P200) SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS



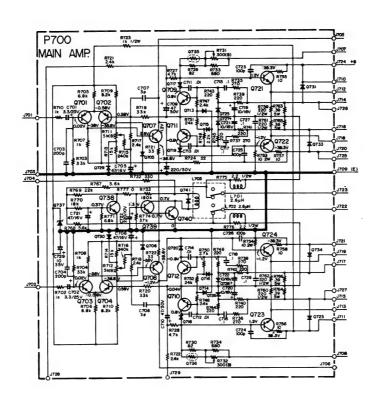


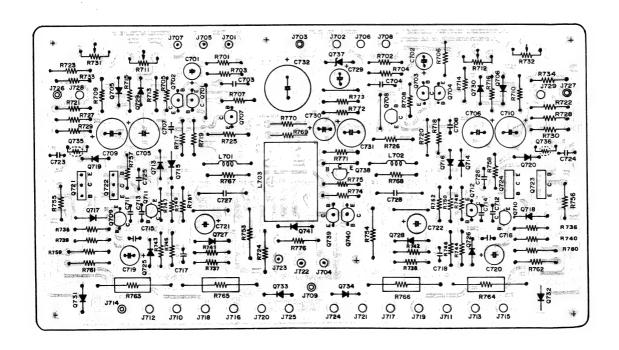
## 14. 3 EQL AMP. ASSEMBLY (P400) SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS



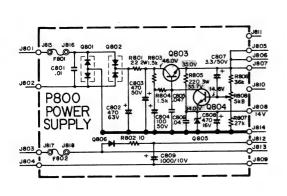


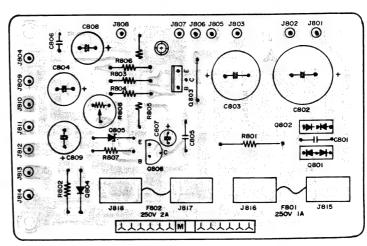
## 14. 4 MAIN AMP. ASSEMBLY (P700) SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS



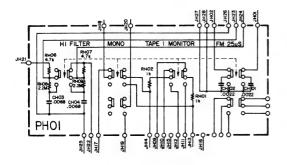


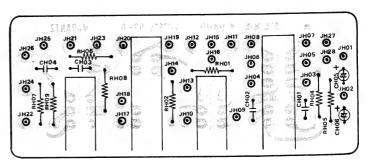
## 14. 5 POWER SUPPLY ASSEMBLY (P800) SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS



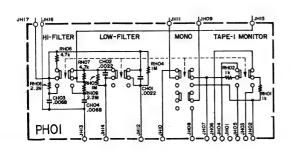


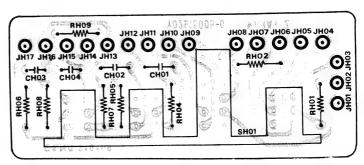
## 14. 6 FILTER DOLBY ASSEMBLY(PH01) SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS • for U.S.A., Canada



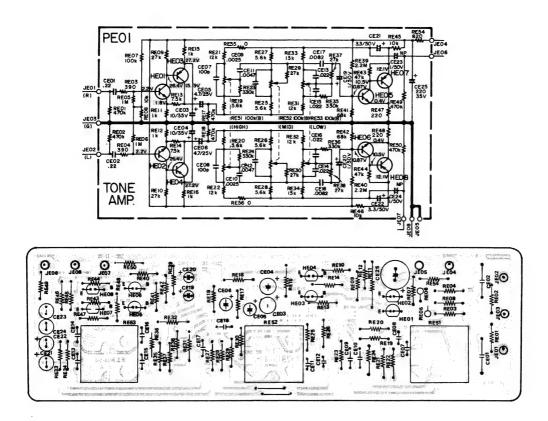


## 14. 7 LOW-HI FILTER ASSEMBLY (PHO1) SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS • for Europe

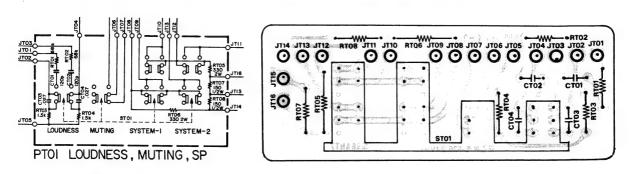




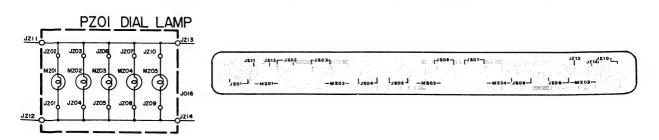
## 14.8 PRE-TONE AMP. ASSEMBLY (PEO1) SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS

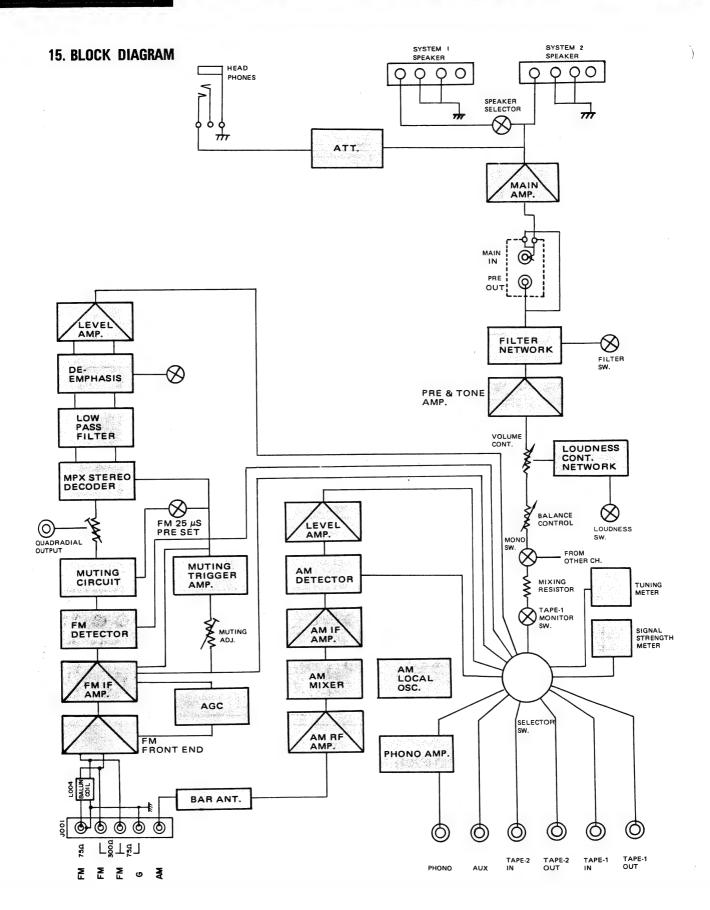


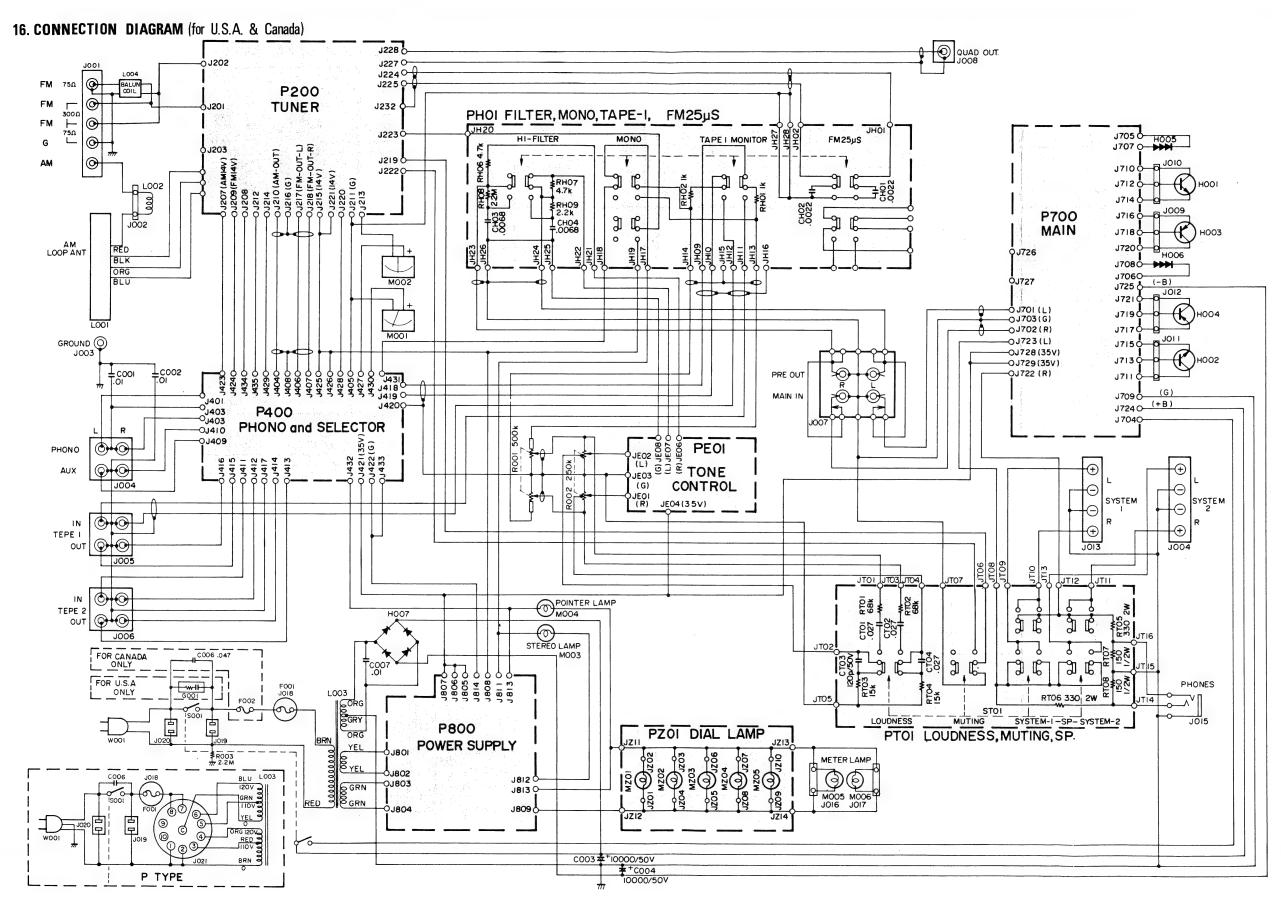
## 14. 9 MAIN REMOTE ASSEMBLY(PTO1) SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS



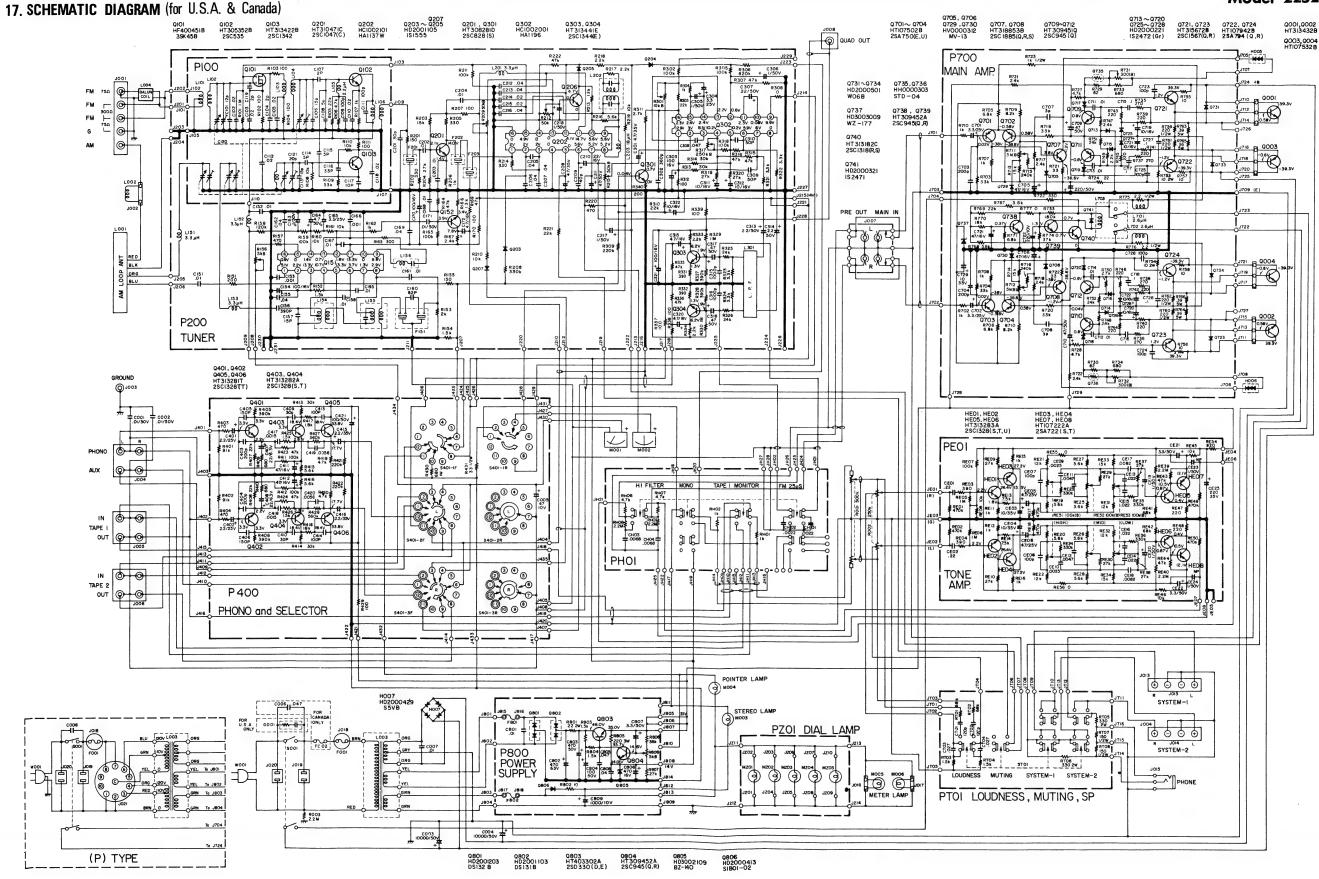
## 14. 10 DIAL LAMP ASSEMBLY(PZ01) SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS



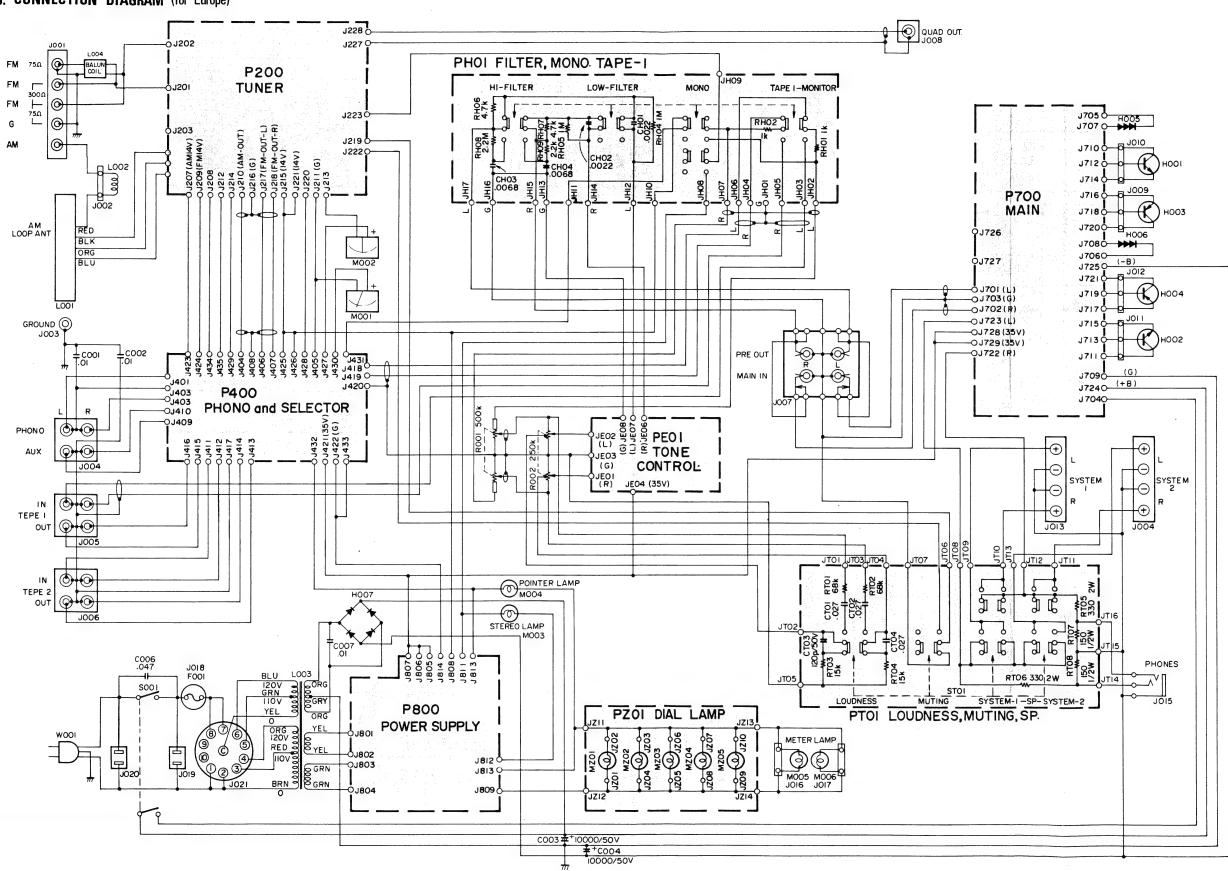




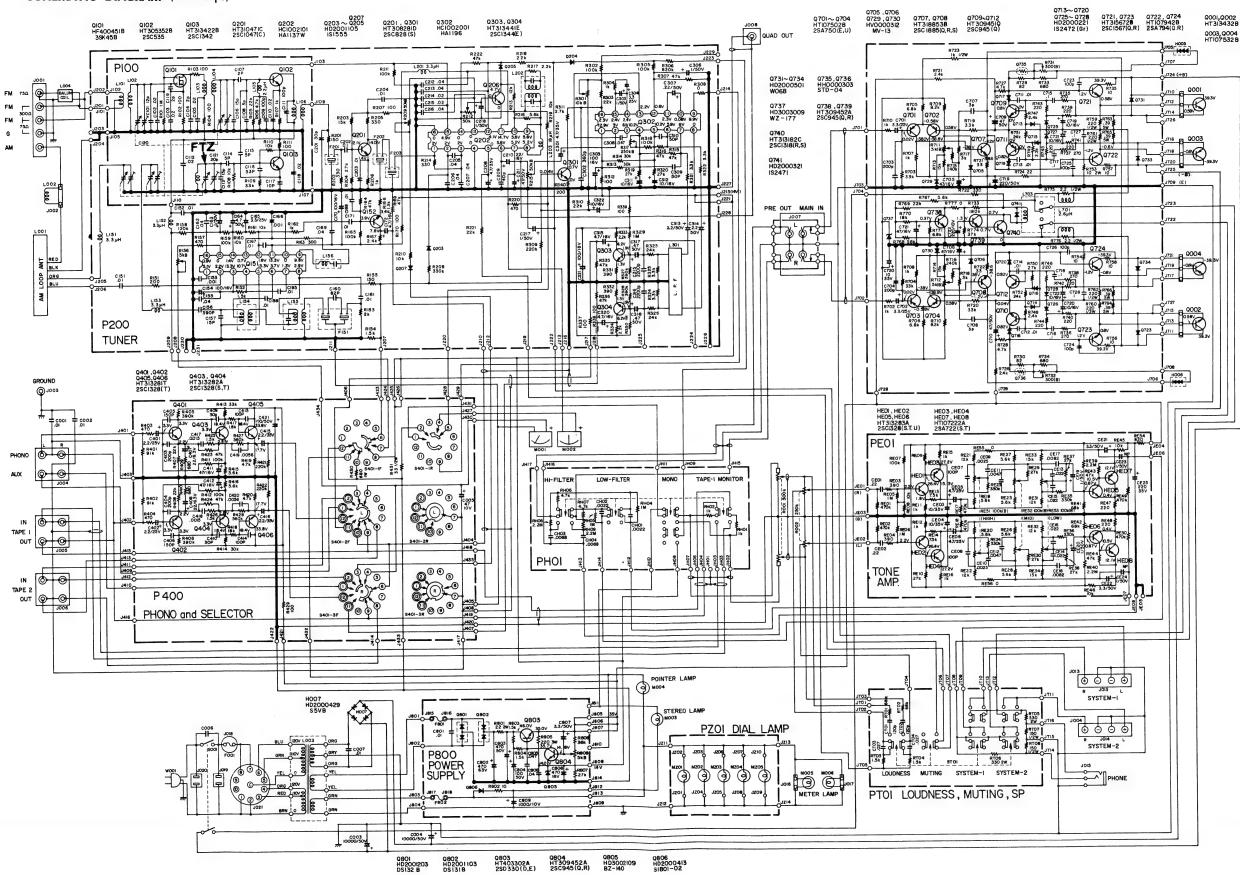
## Model 2252

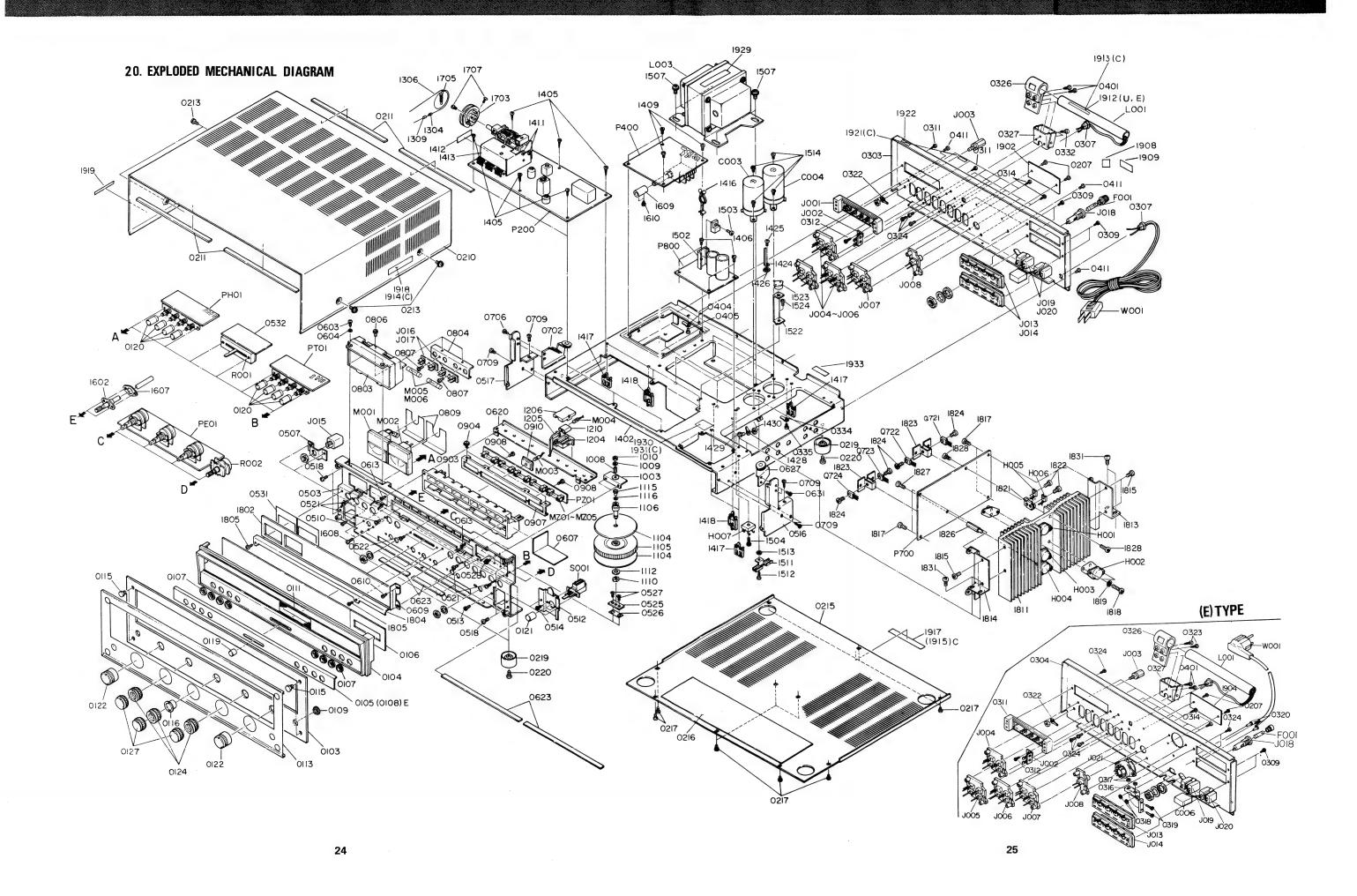


## 18. CONNECTION DIAGRAM (for Europe)









## 21. PARTS LIST

(U) for U.S.A.(C) for Canada(E) for Europe

REF. DESIG.	L	Σ'Τ\ C	/ E	PART NO.	DESCRIPTION		REF.		2′T		PART NO.	DESCRIPTION
DESIG.	_	_	_			ŀ	DESIG	-	-	-		
Α	1	1		2208063400	Front Panel Assembly	Ш	0120	8	8	8	2221154122	Knob
A1		•	1	2208063410	Front Panel Assembly	Ш	0121	1	1	1	2904154140	Knob
0103	1	1	1	2208063012	Escutcheon		0122	2	2	2	2221154132	Knob
0104	1	1	1	2221401012	Frame		0124	3	3	3	2210154020	Knob
0105	1	1		2204063023	Escutcheon		0127	3	3	3	2210154010	Knob
0106	1	1	1	2221158010	Window		0207	2	2	2	51570410S0	B.H. Tapped Screw, B3 x 6
0107	8	8	8	2221259012	Bushing		0213	4	4	4	51480406S9	B.H.M. Screw, B4 x 6
0108	1	1	1	2204063032 2886259010	Escutcheon			10 4		10	51280406U0	B.H. Tapped Screw, B4 x 6
0109 0111	1	1	1	2915107010	Bushing Sheet	1	0219 0220	4	4	4	2932057010 51570410S0	Leg P.H. Tapped Screw, P4 x 10
0111	'	•	•	2313107010	Sheet		0220	•	-	7	3137041030	1.11. Tapped Screw, 14 x 10
0113	1	1	1	2915053010	Cover	1	0222	1	1	1	2208056010	Buffer
							0303	1	1		2208160212	Bracket
В			1	2208160400	Rear Panel Assembly		0307	2	2	1	1455259030	Bushing
0304			1	2208160220	Bracket		0309	4	4	4	51280308U0	B.H. Tapped Screw, B3 x 8
0316			1	2821259010	Bushing T.L. Washer	1	0311	2	2	2	51280308U0	B.H. Tapped Screw, B3 x 8
0318 0320			2	54050300R0 55060305S0	T.R. Rivet	1	0312 0314		10	1 10	51280308U0 51280308U0	B.H. Tapped Screw, B3 x 8 B.H. Tapped Screw, B3 x 8
0320			-	3300030300	1,71. 111000	1	0317	. 0		2	53110303A9	Hexagon Nut
С	1	1	1	2204159400	Drum Assembly	1	0319			2	51060316A9	P.H.M. Screw, P3 x 16
1703	1	1	1	2204159010	Drum	1	0322	1	1	1	62040029W0	Lug
1705	1	1	1	71101689L0	Spring							
1707	2	2	2	51064019A9	Set Screw		0324	3	3	3	51100306S9	B.H.M. Screw, B3 x 6
_							0326	1	1	1	2819271130	Holder
D	1	1	1	2916257440	Lid Assembly, Upper		0327	2		1	2578160522	Bracket, K
0210 0211	1	1	1	2916257110 2577118070	Lid Spacer		0332 0401	2	2	2	51280312U0 51280312U0	B.H. Tapped Screw, B3 x 12 B.H. Tapped Screw, B3 x 12
0211	4	4	7	2577110070	Spacei		0404	1	1	1	62030039W0	Lug
Е	1	1	1	2204257400	Lid Assembly, Lower	1	0405	1	1	1	51280308B0	B.H. Tapped Screw, B3 x 8
0215	1	1	1	2204257010	Lid	١	0408			2	5110030859	B.H.M. Screw, B3 x 8
0216	1	1	1	2915120010	Insulator		0411	4	4	4	51280308U0	B.H. Tapped Screw, B3 x 8
							0503	1	1	1	2915160505	Bracket, K
F	1	1	1	2915103400	Pointer Assembly							
1204	1	1	1	2915103012	Pointer		0509	1	1	1	2915160060	Bracket
1205 1206	1	1	1	2818103020 2915103020	Pointer Pointer	1	0510 0512	2	2	2	51100306A9 2206160020	B.H.M. Screw, B3 x 6 Bracket
1210	1	1	1	2915103020	Heatsink		0512	2	2	2	51100306A9	B.H.M. Screw, B3 x 6
M004	1	1	1	IN10080300	Lamp	ı	0514	2	2	2	51060306A9	P.H.M. Screw, P3 x 6
					· ·	1	0516	1	1	1	2204160020	Bracket
G	1	1	1	1202006420	Hook Assembly		0517	1	1	1	2204160030	Bracket
1304	1	1	1	1202258010	Hook		0518	4	4	4	51100406A9	B.H.M. Screw, B4 x 6
1306	1	1	1	72071705D0	String		0521	4	4	4	51100306A9	B.H.M. Screw, B3 x 6
ш	1	1	1	2853273400	Flywheel Assembly		0522	2	2	2	51100306A9	B.H.M. Screw, B3 x 6
H 1104	2	1 2	2	2577063022	Escutcheon		0525	1	1	1	2577106020	Bearing
1105	1	1	1	2577273010	Flywheel		0526	1	1	i	1415118010	Spacer
1106	1	1	1	2853112010	Shaft	1	0527	2	2	2	51040306A9	F.H.M. Screw, F3 x 6
1110	1	1	1	53110603E9	Hexagon Nut	١	0528	2	2	2	51490306A9	B.H.M. Screw, B3 x 6
1112	1	1	1	54020601E0	Flat Washer		0531	2	2	2	2871053020	Cover
							0532	1		1	2915120040	Insulator
					Į.		0603	2		2	51600306B0	P.H. Tapped Screw, P3 x 6
							0607	1		1	2819120050	Insulator
					ł		0609 0610	1 2		1 2	2853269010 51280306B0	Protector B.H. Tapped Screw, B3 x 6
							0010	2	-	-	3120030000	B.H. Tapped Screw, B3 X 0
							0613	2	2	2	51042608A0	F.H.M. Screw, F2.6 x 8
		İ				1	0620	1	1	1	2871051020	Guide
		1					0623	4	4	4	2886120020	Insulator
0115	4	4	4		H. Head Bolt		0627	1	1	1	2915262502	Pulley, K
0116	1	1	1	2916055010	Collar		0631	2		2	51100306A9	B.H.M. Screw, B3 x 6
0119	1	1	1	2221154110	Knob		0702 0706	1 2		1 2	2204262500 51100306A9	Pulley, K B.H.M. Screw, B3 x 6
							0,00	-	_	-	51100300A9	D. T. I.VI. OCI GWY, DO A U
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• (U) for U.S.A.

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_	1=1	for	Furone

											● (E) for Europe
REF. DESIG.		Τ'Ω		PART NO.	DESCRIPTION	REF.		O'T		PART NO.	DESCRIPTION
DESIG.	U	C	E			DESIG	. 0	-	E		
	-	_	_	E4000000							
0709	6	6	6	51280308B0	B.H. Tapped Screw, B3 x 8	1827	1			51100306A9	B.H.M. Screw, B3 x 6
0803	1		1	2886274012	Reflector	1828	2			51100306A9	B.H.M. Screw, B3 x 6
0804	1		1	2886271020	Holder	1831	4	1	4	51280306B0	B.H. Tapped Screw, B3 x 6
0806	2		2	51480306A9	B.H.M. Screw, B3 x 6	1902	1			2208265010	Indicator
0807	2	2	2	51570305B0	P.H. Tapped Screw, P3 x 5	1903		1	- 1	2208265020	Indicator
0809	2	2	2	2886107010	Sheet Reflector	1904	١.	١.	1	2208265030	Indicator
0903	2		1 2	2871274110 51480306A9	B.H.M. Screw, B3 x 6	1912 1913	1	1		2506265060 2911861170	Label, Do not use as Handle Label, Do not use as handle.
0907	1	1	1	2871271010	Holder	1915		1		2911861110	Label, UL Caution
0908	2	2	2	51570305B0	P.H. Tapped Screw, B3 x 5	1914		1		2911861110	Label, Do not remove cover.
0300	-	_	1	3137000350	Time Tapped Serew, 25 x 5			'		2011001140	See marking on bottom.
0910	1	1	1	2874259010	Bushing	1917	1	1	1	2578861010	Label, UL Caution
1003	1	1	1	2853106500	Bearing, K	1918	1	1	- 1	2932861010	Label, Do not remove cover.
1008	1	1	1	51640410D9	Set Screw, C.P.						See marking on bottom.
1009	1	1	1	54040402N0	Spring Washer	1919	1			2818861010	Label, FTC
1010	1	1	1	53110403E9	Hexagon Nut	1921		1		9510911010	Label, LL
1115	1	1	1	2850112020	Shaft	1922	1			9510911020	Label, UL Factory
1116	1	1	1	54040402N0	Spring Washer	1923	1			9511101020	Label, UL
1402	1	1	1	2204105014	Chassis	19 <b>09</b>		1		2911861010	Label
1405	6	6	6	51280308U0	B.H. Tapped Screw, B3 x 8	1908		1		2911861240	Label
1406	4	4	4	51280306U0	B.H. Tapped Screw, B3 x 6	1929	1	1	1	2886861010	Label, Marantz
						1930	1	1	1	9510221010	Label, Fuse
1407	4	4	4	51280306U0	B.H. Tapped Screw, B3 x 6	19 <b>31</b>		1	- 1	2911861160	Label, Fuse
1409	1	1	1	2204005030	Clamper	1933		1		9510601050	Label, 5A, 250V
1416	2	2	2	2204005040	Clamper					0040040040	
1417	4	4	4	2886005020	Clamper	2005		1		2918813012	Envelope
1418	3	3	3	2886005050	Clamper	2006	1		1	2818813010	Envelope
1424	1	1	1	1382005030	Clamper	2011	1		1	2577851020	Instructions, Important
1425	1	1	1	51280306B0	B.H. Tapped Screw, B3 x 6	2012		1	1	2818851120	Instructions, Important
1426	1	I .	1	54050300R0	T.L. Washer, OR	2016	1		1	2577854012 9630000180	Guarantee Card Guarantee Card
1502	1	1	1	2204267020	Heatsink	2017 2021		1	'	9650000180	S. Station Card
1503	1	1	1	51100306E9	B.H.M. Screw, B3 x 6	2025	1	'		2818854022	Guarantee Card
1504			1	E1E70212B0	B H M Sorow B2 v 12	2026	'	1		2818854040	Guarantee Card
1504 1507	1	1 4	1	51570312B0 51490514A9	P.H.M. Screw, P3 x 12 B.H.M. Screw, B5 x 14	2032	1	'		2818851040	Instructions, Packing
1508	2	2	2	2916160070	Bracket	2002	'			2010001010	moti deciona,
1511	1	1	1	2206160030	Bracket	2033		1	1	2818851140	Instructions, Packing
1512	1	1	i	51280306B0	B.H. Tapped Screw, B3 x 6	2104	1	'	'	2208851010	Instructions, Set
1513	i	1	1	54050300R0	T.L. Washer, OR	2106	1	1	1	2208851310	Instructions, Set
1514	4	4	4	51280306U0	B.H. Tapped Screw, B3 x 6	2109		1		2886851100	Instructions, Flysheet
1522	1	1	1	2927160050	Bracket	2116	1	1		2208856010	Schematic
1523	1	1	1	2908259010	Bushing	2117			1	2208856020	Schematic
1524	1	1	1	51570306B0	P.H. Tapped Screw, P3 x 6	2202	1	1	1	2208801010	Packing Case, Inner
						2203	1	1	1	2208801110	Packing Case, Outer
1602	1	1	1	2204112502	Shaft, K	2211	2	2	2	2204809010	Cushion
1607	1	1	1	2204005010	Clamper	2216	1	1	1	9014838380	Polyethylene Bag
1608	2	2	2	51100310A9	B.H.M. Screw, B3 x 10						
1609	1		1	2896125010	Joint	2218	1	1		9013025010	Polyethylene Bag, Printed Matter
1610	2		2	51064019A9	Set Screw	2219	1		1	9013025010	Polyethylene Bag, Accessories
1802	1	1	1	2204302012	Dial	2223	1	1		2864804010	Sleeve
1804	1	1	1	2915269012	Protector	2224		١.	1	9560000042	Hang Tag
1805	2	1	2	51280306B0	B.H. Tapped Screw, B3 x 6	2226	1	1		2731821010	Silicagel
1811	1	1	1	2208267010	Heatsink	2228	1		1	2819056010	Buffer
1813	1	1	1	2208104013	Retainer	2231	1	1	1	2918107130	Sheet
1			1			2302	4			9522815010 9523015120	Serial No. Card Serial No. Card
1814	1	1	1	2208104023	Retainer	2303 2304		4	4	9523015120	Serial No. Card
1815	4		4	51280306U0	B.H. Tapped Screw, B3 x 6	2314		2		9510901020	Label
1817	8		4	51100306S9	B.H.M. Screw, B3 x 6	2327	1	1 .		ZA02000070	Ext. Antenna
1818	8		8	51100314B9 54040302N0	B.H.M. Screw, B3 x 14 Spring Washer	_02,	Ι.	1	'		
1819	1	1	1	2208005020	Clamper						P200 TUNER BOARD
1821 1822	2	1	2	51100306A9	B.H.M. Screw, B3 x 6	P200	1	1	1	YD22042010	P.W. Board
1823	2		2	2912267022	Heatsink	=55	1			ZZ22082110	P.W. Board Assembly
1824	4		4	51100306S9	B.H.M. Screw, B3 x 6				1	ZZ22088010	P.W. Board Assembly
1826	1		1	2208101010	Support						•
					· · ·	P208	8	8	8	2933118020	Spacer
	1					P211			12	75061251P0	Jumper
	1			<del></del>		L	1	_		L	

• (U) for U.S.A. • (C) for Canada

	Europe	

REF. DESIG.		C		PART NO.	DESCRIPTION		REF. DESIG.	_	C	E	PART NO.	DESCRIPTION
					P100 FM FRONT END BOARD		R152	1	1	1	RT05152140	Resistor, $1.5k\Omega \pm 5\%$ ¼W Resistor, $2k\Omega \pm 5\%$ ¼W
P100	1	1	1	YD29910010	P.W. Board		R153	1	1	1	RT05202140	
	1	1	1	AV01202060	P.W. Board Assembly		R154	1	1	1	RT05152140	
				000000000000	1110 :50 1/1		R155	1	1	1	RT05151140	1100101017
R101	1	1	1	GD05105140	Resistor, $1M\Omega \pm 5\% \text{ ¼V}$ Resistor, $100\Omega \pm 5\% \text{ ¼V}$		R156 R157	1	1	1	RA05020200 RT05471140	Trimming Resistor, $5k\Omega$ (B) Resistor, $470\Omega$ ±5% ¼W
R102	1	1	1	GD05101140		1 1	R158	1	1	1	RT05124140	Resistor, $120k\Omega \pm 5\%$ %W
R103 R104	1		1	GD05101140 GD05101140	Resistor, $100\Omega \pm 5\%$ ¼V Resistor, $100\Omega \pm 5\%$ ¼V		R159	;	1	i	RT05124140	Resistor, $100k\Omega \pm 5\%$ %W
R104	1	1	1	GD05101140	Resistor, $22k\Omega \pm 5\%$ %V		R160	1	1	i	RT05103140	Resistor, $10k\Omega \pm 5\%$ %W
	i	1	1	GD05223140 GD05472140	Resistor, $4.7k\Omega \pm 5\%$ %V		R161	1	1	1	RT05103140	Resistor, $10k\Omega \pm 5\%$ %W
R107	4	1	1	GD05102140	Resistor, 1kΩ ±5% ¼V	M	R162	1	1	1	RT05102140	Resistor, 1kΩ ±5% ¼W
R107	1	1	1	GD05102140	Resistor, $10k\Omega \pm 5\%$ %V		R163	1	1	1	RT05301140	Resistor, 300Ω ±5% ¼W
R109	1	1	1	GD05103140	Resistor, $33k\Omega \pm 5\%$ %V		R164	1	1	i	RT05473140	Resistor, 47kΩ ±5% ¼W
R110	1	i	i	GD05353140	Resistor, $10k\Omega \pm 5\%$ %V		R165	1	1	1	RT05104140	Resistor, 100kΩ ±5% ¼W
R111		i	1	GD05101140	Resistor, $100\Omega \pm 5\%$ ¼V		R166	1	1	1	RT05132140	Resistor, 1.3kΩ ±5% ¼W
C101		1	1	DD16120020	Ceramic Cap., 12pF ±10%		R167	1	1	i	RT05242140	Resistor, 2.4kΩ ±5% ¼W
C102	1	1	1	DK18203030	Ceramic Cap., 0.02µF +80 %		R169	1	1	1	RT05473140	Resistor, 47kΩ ±5% ¼W
C103	1	1	1	DK18203030	Ceramic Cap., 0.02µF + 20 %		R170	1	1	1	RT05101140	Resistor, 100Ω ±5% ¼W
C103	1	1	1	DD11020010	Ceramic Cap., 0.0241 = 20 %  Ceramic Cap., 2pF ±0.5pF		R201	1	1	i	RT05151140	Resistor, $150\Omega \pm 5\%$ ¼W
C104	1	1	1	DK18203030	Ceramic Cap., 0.02pF +80 %		R202	1	1	1	RT05331140	Resistor, $330\Omega \pm 5\%$ %W
C106	1	1	1	DD16150040	Ceramic Cap., 15pF ±10%		R203	1	1	1	RT05153140	Resistor, 15kΩ ±5% ¼W
C107	1	1	1	DD11020010	Ceramic Cap., 2pF ±0.5pF		R204	1	1	1	RT05272140	Resistor, 2.7kΩ ±5% ¼W
C108	1	1	1	DD12050010	Ceramic Cap., 5pF ±1pF		R205	1	1	1	RT05331140	Resistor, 330Ω ±5% ¼W
C109	1	1	1	DD16101010	Ceramic Cap., 100pF ±10%		R206	1	1	1	RT05102140	Resistor, 1kΩ ±5% ¼W
C110	1	1	1	DK18203030	Ceramic Cap., 0.02µF +80 %		R207	1	1	1	RT05101140	Resistor, $100\Omega \pm 5\%$ ¼W
C111	1	1	1	DD16101010	Ceramic Cap., 100pF ±10%		R208	1	1	1	RT05334140	Resistor, 330kΩ ±5% ¼W
C112	1	1	1	DK18203030	Ceramic Cap., 0.02µF ±30 %		R209	1	1	1	RA05030120	Trimming Resistor, 50kΩ (B)
C113	1	1	1	DD15150020	Ceramic Cap., 15pF ±5%		R210	1	1	1	RT05103140	Resistor, 10kΩ ±5% ¼W
C114	1	1	1	DD10050030	Ceramic Cap., 5pF ±0.25pF		R211	1	1	1	RT05104140	Resistor, 100kΩ ±5% %W
C115	1	1	1	DD12050010	Ceramic Cap., 5pF ±1pF		R212	1	1	1	RA01030250	Trimming Resistor, 10k $\Omega$ (B)
C116	1	1	1	DD16330020	Ceramic Cap., 33pF ±10%		R213	1	1	1	RT05123140	Resistor, 12kΩ ±5% ¼W
C117	1	1	1	DD12100060	Ceramic Cap., 10pF ±1pF		R214	1	1	1	RT05331140	Resistor, $330\Omega \pm 5\%$ %W
C118	1	1	1	DK18203030	Ceramic Cap., 0.02μF ±20 %		R215	1	1	1	RA05030120	Trimming Resistor, 50kΩ (B)
C119	1	1	1	DD11020010	Ceramic Cap., 2pF ±0.5pF		R216	1	1	1	RT05562140	Resistor, $5.6k\Omega \pm 5\%$ %W
C120	1	1	1	CA32400080	Variable Cap.		R217	1	1	1	RT05222140	Resistor, 2.2kΩ ±5% ¼W
C121	1	1	1	CT14200010	Trimming Cap.		R218	1	1	1	RT05222140	Resistor, $2.2k\Omega \pm 5\%$ %W
L101	1	1	1	LL24700050	Ant. Coil		R219	1	1	1	RT05103140	Resistor, $10k\Omega \pm 5\%$ ¼W
L102	1	1	1	LK12700040	Ant. Coil		R220	1	1	1	RT05471140	Resistor, $470\Omega \pm 5\%$ %W
L103	1	1	1	LL22700020	RF Coil		R221	1	1	1	RT05223140	Resistor, 22kΩ ±5% ¼W
L104	1	1	1	LK11700040	RF Coil		R222	1	1	1	RT05473140	Resistor, 47kΩ ±5% ¼W
L105	1	1	1	LC12220010	Choke Coil, 2.2µH		R301	1	1	1	RA01030310	Trimming Resistor, $10k\Omega$ (B)
L106	1	l i	1	LI10239010	IFT		R302	1	1	1	RT05104140	Resistor, 100kΩ ±5% ¼W
L107	1	1	1				R303	1	1	1	RT05223140	Resistor, 22kΩ ±5% ¼W
Q101	1	1	1	HF400451B0			R304	1	1	1	RT05102140	Resistor, 1kΩ ±5% ¼W
Q102		i .	1	HT305352B0	Transistor, 2SC535		R305	1	1	1	RT05104140	Resistor, 100kΩ ±5% ¼W
Q103		1	1	HT313422B0	Transistor, 2SC1342		R306	1	1	1	RT05824140	Resistor, 820kΩ ±5% ¼W
	١.	١.					R307		1	1	RT05473140	Resistor, 47kΩ ±5% ¼W
2121	1	1	1	2991109010	Shield		R308		1	1	RC00000120	Resistor, OΩ
2122	1	i	1	2991053110	Cover		R309		1	1	RT05224140	Resistor, $220k\Omega \pm 5\%$ %W
J101	1	1	1	YP10001510	Plug		R310	1	1	1	RT05223140	Resistor, 22kΩ ±5% ¼W
J102	1	i	1	YP10001510	Plug		R311	1	1	1	RT05272140	Resistor, 2.7kΩ ±5% ¼W
J103	i	1	1	YP10001510	Plug		R312		1	1	RT05101140	Resistor, 100Ω ±5% ¼W
J105	i	1	1	YP10001510	Plug		R313		i	1	RT05303140	Resistor, 30kΩ ±5% ¼W
J103	1	1	1	YP10001510	Plug	- 1	R314		1	1	RT05303140	Resistor, 30kΩ ±5% ¼W
J109	i	1	1	YP10001510	Plug	- 1	R315		1	1	RT05473140	Resistor, $47k\Omega \pm 5\%$ %W
J110	1	1	1	YP10001510	Plug	- 1	R316		1	i	RT05473140	Resistor, $47k\Omega \pm 5\%$ %W
R151	1	1	1	RT05201140		w۱	R317		1	1	RA02540010	Trimming Resistor, 250kΩ (B)
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_	(E)	for	Furone

DEE	EF. Q'TY						DEE		)'T'			• (E) for Europe			
		C		PART NO.	DESCRIPTION		DESIG.				PART NO.	DESCRIPTION			
R321 R322 R323 R324 R325 R326 R327				RT05104140 RT05273140 RT05273140 RT05332140 RT05332140 RT05332140 RT05332140 RT05243140 RT05243140 RT05243140 RT05105141 RT05105141 RT05105141 RT05105141	DESCRIPTION           Resistor, $100kΩ$ $\pm 5\%$ Resistor, $27kΩ$ $\pm 5\%$ Resistor, $27kΩ$ $\pm 5\%$ Resistor, $3.3kΩ$ $\pm 5\%$ Resistor, $3.3kΩ$ $\pm 5\%$ Resistor, $3.3kΩ$ $\pm 5\%$ Resistor, $24kΩ$ $\pm 5\%$ Resistor, $390kΩ$ $\pm 5\%$ Resistor, $1MΩ$ $\pm 5\%$ Resistor, $1MΩ$ $\pm 5\%$ Resistor, $1MΩ$ $\pm 5\%$ Resistor, $390kΩ$ $\pm 5\%$	%W %	C213 C214 C215 C216 C217 C218 C301 C302 C303 C304 C305 C306 C307 C308		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		DK18403010 DK18203020 DK18203020 DK18403010 EA10505090 EA10505090 EA47503590 DF65361500 EA10701690 EE33502510 EE10505010 EA10505090 EQ22405010 DF17473010	DESCRIPTION           Ceramic Cap., 0.04μF ±100 %           Ceramic Cap., 0.02μF ±100 %           Ceramic Cap., 0.04μF ±100 %           Ceramic Cap., 0.04μF ±100 %           Electrolytic Cap., 1μF 50V           Electrolytic Cap., 4.7μF 35V           Film Cap., 360pF ±5%           Electrolytic Cap., 100μF 16V           Electrolytic Cap., 3.3μF 25V           Electrolytic Cap., 1μF 50V           Electrolytic Cap., 1μF 50V           Electrolytic Cap., 0.22μF 50V           Film Cap., 0.047μF			
R332 R333 R334 R335 R336 R337	1 1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1	RT05391140 RT05391141 RT05222141 RT05222141 RT05473141 RT05473141 RT05101141	Resistor,       390Ω $\pm 5\%$ Resistor,       2.2kΩ $\pm 5\%$ Resistor,       2.2kΩ $\pm 5\%$ Resistor,       47kΩ $\pm 5\%$ Resistor,       100Ω $\pm 5\%$	2W 2W 2W 2W 2W 2W 2W	C308 C309 C310 C311 C312 C313 C314	1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1	1 1 1 1 1	DD15500050 DD15500050 EA10601690 EA10601690 EA22505090 EA22505090 DF15102050 DF15102050	Ceramic Cap., 50pF ±5% Ceramic Cap., 50pF ±5% Electrolytic Cap., 10μF 16V Electrolytic Cap., 10μF 16V Electrolytic Cap., 2.2μF 50V Electrolytic Cap., 2.2μF 50V Film Cap., 1000pF ±5% Film Cap., 1000pF ±5%			
R340 C151 C152 C153 C154 C155 C156 C157	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1 1	RT05201141 DK17103040 DK17103040 DK17102010 EA10701690 DK18403020 DF65391010 DD16150070	Resistor, 200Ω ±5% Ceramic Cap., 0.01μF ±20% Ceramic Cap., 0.01μF ±20% Ceramic Cap., 0.01μF ±20% Electrolytic Cap., 100μF Ceramic Cap., 0.04μF ±20% Film Cap., 390pF ±5% Ceramic Cap., 15pF ±10%	16V	C317 C318 C319 C320 C321 C322 C315 C316	1 1 1 1 1	1 1 1 1 1	1 1 1 1 1 1 1	EA47405010 EA47405010 EV47501660 EV47501660 EA10701690 EE10601620 DF15222050 DF15222050	$ \begin{array}{llllllllllllllllllllllllllllllllllll$			
C158 C159 C160 C161 C162 C163 C164 C165 C166	1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1	DK17103040 DK17103010 DD15820010 DK17103040 DK18403020 EA10505090 EA47503590 EA33502590 DK17102010 DK17103040	$\begin{array}{llll} \text{Ceramic Cap.,} & 0.01 \mu \text{F} & \pm 20\% \\ \text{Ceramic Cap.,} & 0.01 \mu \text{F} & \pm 20\% \\ \text{Ceramic Cap.,} & 82 \text{pF} & \pm 5\% \\ \text{Ceramic Cap.,} & 0.01 \mu \text{F} & \pm 20\% \\ \text{Ceramic Cap.,} & 0.04 \mu \text{F} & \pm \frac{15}{20}\% \\ \text{Electrolytic Cap.,} & 1 \mu \text{F} \\ \text{Electrolytic Cap.,} & 3.3 \mu \text{F} \\ \text{Ceramic Cap.,} & 0.001 \mu \text{F} & \pm 20\% \\ \text{Ceramic Cap.,} & 0.01 \mu \text{F} & \pm 20\% \\ \text{Ceramic Cap.,} & 0.01 \mu \text{F} & \pm 20\% \\ \end{array}$	50V 35V 25V	L151 L152 L153 L154 L155 L156 L201 L202 L203 L301	1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1	LC13320020 LC13320020 LC13320020 LO10010480 LI10015010 LI10015060 LC13320020 LI14019010 LC11830010 LS35025010	Choke Coil, 3.3μH Choke Coil, 3.3μH Choke Coil, 3.3μH AM Osc. AM IFT AM IFT Choke Coil, 3.3μH FM IFT Choke Coil, 3.4μH FM IFT Choke Coil, 18μH L.P.F. FB3605			
C168 C169 C170 C171 C172 C201 C202 C203 C204 C205	1 1 1 1	1 1 1 1 1 1 1 1 1	1 1 1 1	DK17103010 DK18403020 EA10701690 DF16104010 EV47501660 DD15300010 DK17103040 DK17103040 DK17103040 DK18403020	Ceramic Cap., 0.01µF ±20% Ceramic Cap., 0.01µF ±20% Ceramic Cap., 0.01µF ±20%	16V 50V 16V	Q151 Q152 Q201 Q202 Q203 Q204 Q205 Q206 Q207 Q301		1 1 1 1 1 1 1 1 1	1 1 1	HC10019010 HT313272A0 HT310471C0 HC10021010 HD20011050 HD20011050 HT308281D0 HD20011050 HT308281D0	Transistor, 2SC1047 C IC, HA1137W Diode, 1S1555 Diode, 1S1555 Transistor, 2SC828 S Diode, 1S1555			
C206 C207 C208 C209 C210 C211 C212	1 1 1 1 1	1 1 1 1 1 1 1	1	DK18403020 DK18403020 EA47503590 DD15400040 EA22601690 EA47405010 DK18403010	Ceramic Cap., $0.04\mu F$ $^{+\frac{50}{20}}\%$ Electrolytic Cap., $4.7\mu F$ Ceramic Cap., $40pF$ $\pm 5\%$ Electrolytic Cap., $22\mu F$ Electrolytic Cap., $0.47\mu F$	35V 16V 50V	Q302 Q303 Q304 F151 F201 F202 F203	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1	HC10020010 HT313441E0 HT313441E0 FF10045160 FF11070050 FF11070050 FF11070050	IC, HA1196 Transistor, 2SC1344 E Transistor, 2SC1344 E Ceramic Filter, AM Ceramic Filter, FM Ceramic Filter, FM Ceramic Filter, FM Ceramic Filter, FM			

	REF. Q'TY				DEE	1	\'T'	v								
REF.				PART NO.	DESCRIPTION	N		REF.		C		PART NO.	DESCRI	PTION	1	
DESIG	-	-	-					DEGIO:	-	۲	-					
											1.1				200/	50V
J201								C418	1	1	1	DF15152010		5μF ±		50V 50V
\	32	32	32	YP10001130	Plug			C419	1	1	1	DF15562010		6μF ±		50V
J232							- 1	C420	1	1	1	DF15562010	Film Cap., 0.005	6μF ±		
	ĺ							C421	1	1	1	EA10705090	Electrolytic Cap.,	100#	100 0/	101
					P400 EQL. AMP. BOAR	D		C422	1	1	1	EA47601090	Electrolytic Cap., 4	1/μF :	10 %	10V
P400	1	1	1	YA22040210	P.W. Board		- 1	P411	4	4	4	75061251P0	Jumper,		000 T	
l	1	1	1	ZZ22080210	P.W. Board Assembly			Q401	1	1	1	HT313281T0	Transistor,		328 T	- 1
								Q402	1	1	1	HT313281T0	Transistor,		328 T	- 1
P408	6	6	6	2933118020	Spacer			Q403	1	1	1	HT313282A0	Transistor,		328 S,	
R401	1	1	1	RT05913140	Resistor, $91k\Omega$	±5%	1/4W	Q404	1	1	1	HT313282A0	Transistor,	2SC1	328 S,	'
R402	1	1	1	RT05913140	Resistor, $91k\Omega$	±5%	1/4W									
R403	1	1	1	RT05471140	Resistor, $470\Omega$	±5%	1/4W	Q405	1	1	1	HT313281T0	Transistor,		328 T	- 1
R404	1	1	1	RT05471140	Resistor, $470\Omega$	±5%	1/4W	Q406	1	1	1	HT313281T0	Transistor,		328 T	- 1
R405	1	1	1	RN05394140	Resistor, $390k\Omega$	±5%	1/4W	S401	1	1	1	SR10050120	Rotary Switch,	Selec	tor	
R406	1	1	1	RN05394140	Resistor, 390kΩ	±5%	1/4W	J401								
R407	1	1	1	RT05223140	Resistor, 22kΩ	±5%	1/4W	1	35	35	35	YP10001130	Plug			1
R408	1	1	i	RT05223140	Resistor, 22kΩ	±5%	1/4W	J435								
R409	1	1	1	RT05681140	Resistor, $680\Omega$	±5%	1/4W		1							
11403	'	'	'	11103001140	riesistor, Ocoar	± 5 /6	/4**						P700 MAIN AMP. I	BOAR	D	- 1
DATA		4		DT05001440	Desistan 6900	±5%	½W	P700	1	1	1	YD22082010	P.W. Board			
R410	1	1	1	RT05681140	Resistor, $680\Omega$		1	1 . 700	i	1	1	ZZ22082010	P.W. Board Assemb	iv		
R411	1	1	1	RN05104140	Resistor, 100kΩ	±5%	1/4W		١'	١.	'	2222002010	1 .W. Dodia Assemb	.,,		
R412	1	1	1	RN05104140	Resistor, $100k\Omega$	±5%	1/4W	P707	2	22	22	3444118050	Cnassr			
R413	1	1	1	RT05303140	Resistor, $30k\Omega$	±5%	1/4W		1				Spacer			
R414	1	1	1	RT05303140	Resistor, $30k\Omega$		1/4W		3		26	2933118020	Spacer	1kΩ	±5%	1/4W
R415	1	1	1	RT05562140	Resistor, $5.6k\Omega$	±5%	1/4W	R701	1	1	1	RT05102140		1kΩ	±5%	1/4W
R416	1	1	1	RT05562140	Resistor, $5.6k\Omega$		1/4W	R702	1	1	1	RT05102140				1/4W
R417	1	1	1	RT05182140	Resistor, $1.8k\Omega$	±5%	1/4W	R703	1	1	1	RT05333140		3kΩ	±5%	1/4W
R418	1	1	1	RT05182140	Resistor, $1.8k\Omega$	±5%	1/4W	R704	1	1	1	RT05333140		3kΩ	±5%	
R419	1	1	1	RT05472140	Resistor, $4.7k\Omega$	±5%	1/4W	R705	1	1	1	RT05682140	_	.8kΩ	±5%	1/4W
								R706	1	1	1	RT05682140	Resistor, 6	.8k $\Omega$	±5%	1/4W
R420	1	1	1	RT05472140	Resistor, $4.7k\Omega$	±5%	1/4W	R707	1	1	1	RT05102140	Resistor,	1kΩ	±5%	1/4W
R421	1	1	1	RT05224140	Resistor, 220kΩ	±5%	1/4W	R708	1	1	1	RT05102140	Resistor,	1kΩ	±5%	¼W
R422	1	1	1	RT05224140	Resistor, 220kΩ	±5%	1/4W									
R423	1	1	1	RT05473140	Resistor, $47k\Omega$	±5%	1/4W	R709	1	1	1	RT05822140	Resistor, 8	.2k $\Omega$	±5%	1/4W
R424	1	1	1	RT05473140	Resistor, $47k\Omega$		1/4W	R710	1	1	1	RT05822140		$.2k\Omega$	±5%	1/4W
R425	1	1	1	RT05152140	Resistor, $1.5k\Omega$		1/4W	R711	1	1	1	RA05020170	Trimming Resistor,		5kΩ	(B)
R426	1	1	1	RT05152140	Resistor, $1.5k\Omega$		1/4W	R712	1	1	1	RA05020170	Trimming Resistor		$5k\Omega$	(B)
R427	i	i i	1	RN05564140	Resistor, $560k\Omega$		1/4W	R713		1	1	RT05153140		5kΩ	±5%	1/4W
R428	1	1	1	RN05564140		±5%	1/4W	R714		1	1 1	RT05153140		5kΩ	±5%	1/4W
R429	1	1	i		•	±5%	1/4W	R715		1	1 1	RT05244140		lOkΩ	±5%	1/4W
N429		<b>'</b> '	<b>'</b> '	RT05101140	Resistor, $100\Omega$	13%	/4 V V	R716		i	1 1	RT05244140		ιοκΩ	±5%	1/4W
D 420			1	0.105004.040	D CDOO	. = 0/	4187		Ι.	1	1	RT05242140		.4kΩ	±5%	1/4W
R430	1	1	1	GJ05681010	Resistor, $680\Omega$		1W	R717		1			_	.4kΩ	±5%	1/4W
R431	1	1	1	GF05330120	Resistor, $33\Omega$	±5%	1/2W	R718	1	'	1	RT05242140	Resistor, 2	.414	20 /0	,
R400	1	1	1	RC00000120	Resistor, $0\Omega$			0740		١.		DT05000440	D	2240	±5%	1/4W
C401	1	1	1	EV22502560	Electrolytic Cap., 2.2μF		25V	R719		1		RT05333140		33kΩ		1/4W
C402	1	1	1	EV22502560	Electrolytic Cap., 2.2μF		25V	R720	1	1		RT05333140		33kΩ	±5%	1/4W
C403	1	1	1	DD15201010			50V	R721	1	1	1	RT05242140	_	.4kΩ	±5%	
C404	1	1	1	DD15201010	Ceramic Cap., 200pF	±10%	50V	R722		1		RT05242140		.4kΩ	±5%	1/4W
C405	1	1	1	DD16151010	Ceramic Cap., 150pF	±10%	50V	R723	1	1	1 1	GF05102120	Resistor,	1kΩ	±5%	1/2W
C406	1	1	1	DD16151010	Ceramic Cap., 150pF	±10%	50V	R724	1	1	1	GF05220120	Resistor,	$22\Omega$	±5%	1/2W
C407	1	1	1	EV22600660	Electrolytic Cap., 22µF	±20%	6.3V	R725	1	1	1	GF05330140	Resistor,	$33\Omega$	±5%	1/4W
								R726	1	1	1	GF05330140	Resistor,	$33\Omega$	±5%	1/4W
C408	1	1	1	EV22600660	Electrolytic Cap., 22µF	±20%	6.3V	R727	1	1	1	RT05472140	Resistor, 4	.7kΩ	±5%	¼W
C409	1	1	1	DD16300010		±10%	50V	R728	1	1	1	RT05472140	Resistor, 4	$.7k\Omega$	±5%	14W
C410	1	1	1	DD16300010		±10%	50V									
C411	1	1	i	EA47601690			16V	R729	1	1	1	RT05820140	Resistor,	$82\Omega$	±5%	1/4W
C412	1	1		EA47601690			16	R730		1	1 1	RT05820140	Resistor,	82Ω	±5%	1/4W
C413	1						50V	R731	1	1	1 . 1	RA03010020	Trimming Resistor		$300\Omega$	(B)
	:	1	1	DD16101010				R732	1	1	1 )	RA03010020	Trimming Resistor	•	$300\Omega$	(B)
C414	!	1	ł	DD16101010			50V			1	1	GF05681140		, 208	±5%	1/4W
C415	1	1		EE22503510			35V	R733		1				080	±5%	¼W
C416	1	1		4				R734		1	1 1	GF05681140			±5%	1/4W
C417	1	1	1	DF15152010	Film Cap., 0.0015µF	±20%	50V	R735	1	1	1	GF05331140	Resistor,	330Ω	±370	,410
								1	1	1						
1																
1										1						
								1								
L																

• (U) for U.S.A. • (C) for Canada

•	(E)	for	Europe

REF.	0	'TY	,	DART NO	DESCRIPTION OF THE PROPERTY OF			REF.		L'TY		PART NO.	DESCR	IPTION
DESIG.	U	C	E	PART NO.	DESCRIPTION	אוע		DESIG.	U	С	E			
D726	,	1	1	GF05331140	Resistor, 330Ω	±5%	14W	C716	1	1	1	DF17104010	Film Cap., (	0.1μF 50V
R736	1		- 1				1/4W	C717	1	1	1	DF17104010	Film Cap., (	).1µF 50V
R737	1	1	1	GF05301140				C718	1	1	1	DF17104010		0.1μF 50V
R738	1	1	1	GF05301140	Resistor, $300\Omega$		1/4W	C719	i	1	i		Electrolytic Cap.,	
R739	1	1	1	GF05241140	Resistor, $240\Omega$		1/4W	C720	i	1	i l	EE10601620	Electrolytic Cap.,	10µF ±20% 16V
R740	1	1	1	GF05241140	Resistor, $240\Omega$		1/4W		1		1	EE10601620	Electrolytic Cap.,	10µF ±20% 16V
R741	1	1	1	GF05271140	Resistor, $270\Omega$		1/4W	C721	'	1	1 1		Electrolytic Cap.,	10µF ±20% 16V
R742	1	1	1	GF05271140	Resistor, $270\Omega$	±5%	1/4W	C722	1	1	1	EE10601620		
R743	1	1	1	GF05241140	Resistor, $240\Omega$	±5%	1/4W	C723	1	1	1	DK16101500		
R744	1	1	1	GF05241140	Resistor, $240\Omega$	±5%	1/4W	C724	1	1	1	DK16101500		00pF 500V
R745	1	1	1	GF05221140	Resistor, 220Ω	±5%	1/4W	C725	1	1	1	DK16101500	Ceramic Cap., 1	00pF 500V
R746	1	1	1	GF05221140	Resistor, $220\Omega$	±5%	1/4W	C726	1	1	1	DK16101500	Ceramic Cap., 1	00pF 500V
R747	1		- 1		Resistor, $5.1 k\Omega$		1/4W	C727	1	1	1	DF17104520	Film Cap., (	0.1µF ±20% 200V
	l . I	1	1	GF05512140			1/4W	C728	1	1	1	DF17104520	Film Cap.,	0.1µF ±20% 200V
R748	1	1	1	GF05512140	Resistor, $5.1k\Omega$		1/4W	C729	1	1	1	EA10603590	Electrolytic Cap.,	10µF +100 % 35V
R749	1	1	1	GF05562140	Resistor, $5.6k\Omega$			C730	1	1	1	EA47601690	Electrolytic Cap.,	47µF +100 % 16V
R750	1	1	1	GF05562140	Resistor, $5.6k\Omega$		1/4W	C731	1	1	i	EA22701090	Electrolytic Cap.,	220µF +100 % 10V
R751	1	1	1	GF05223140	Resistor, 22kΩ		1/4W			1	1		Electrolytic Cap.,	220µF ±100% 50V
R752	1	1	1	GF05223140	Resistor, $22k\Omega$	±5%	1/4W	C732	!!	1		EA22705090		22041 - 16 / 000
R753	1	1	1	GJ05100020	Resistor, $10\Omega$	±5%	2W	Q701	1	1	1	HT107502B0	Transistor,	2SA750 E, U
R754	1	1	1	GJ05100020	Resistor, $10\Omega$	±5%	2W	Q702	1	1	1	HT107502B0	Transistor,	2SA750 E, U
R755	1	1	1	GF05100140	Resistor, 10Ω	±5%	1/4W	Q703	1	1	1	HT107502B0	Transistor,	2SA750 E, U
D750				0505400440	Desister 100	±5%	½W	Q704	1	1	1	HT107502B0	Transistor,	2SA750 E, U
R756	1	1	1	GF05100140	Resistor, 10Ω			0705	1	1	1	HV00003120	Diode,	MV-13
R757	1	1	1	GF05100140	Resistor, $10\Omega$		1/4W	0706	1	i	1	HV00003120	Diode,	MV-13
R758	1	1	1	GF05100140	Resistor, $10\Omega$		1/4W	1	1:		1 I			2SC1885 C, D, E
R759	1	1	1	GF05221120	Resistor, $220\Omega$	±5%	1/2W	Q707	!!	1	1	HT318853B0	Transistor,	
R760	1	1	1	GF05221120	Resistor, 220Ω	±5%	1/2W	Q708	1	1	1	HT318853B0	Transistor,	2SC1885 C, D, E
R761	1	1	1	GF05221120	Resistor, 220Ω	±5%	1/2W	Q709	1	1	1	HT309451Q0	Transistor,	2SC945 Q
R762	1	1	1	GF05221120	Resistor, 220Ω	±5%	1/2W	Q710	1	1	1	HT309451Q0	Transistor,	2SC945 Q
R763	i	1	i	GW10392050		±10%	5W	Q711	1	1	1	HT107331Q0	Transistor,	2SA733 Q
R764	1	l i	1	GW10392050		±10%	5W	Q712	1	1	1	HT107331Q0	Transistor,	2SA733 Q
R765	1	1	1	GW10392050		±10%	5W	Q713	1	1	1	HD20002210	Diode,	1S2472 (Gr)
						. 400/		Q714	1	1	1	HD20002210	Diode,	1S2472 (Gr)
R766		1	1	GW10392050		±10%	5W		1 .	1	i	HD20002210	Diode,	1S2472 (Gr)
R767	1	1	1	RC10022120		±10%	1/2W	Q715	1	1			· ·	152472 (Gr)
R768	1	1	1	RC10022120	Resistor, 2.20	±10%	1/2W	Q716	1	1	1	HD20002210	Diode,	
R769	1	1	1	RC10562120	Resistor, 5.6kΩ	±10%	1/2W	0717	1	1	1	HD20002210	Diode,	1\$2472 (Gr)
R770	1	1	1	RC10562120	Resistor, 5.6kΩ	±10%	1/2W	0718	1	1	1	HD20002210	Diode,	1S2472 (Gr)
R771	1	1	1	RT05223140	Resistor, 22ks	±5%	1/4W	0719	1	1	1	HD20002210	Diode,	1S2472 (Gr)
R772	1	1	1	RT05183140	Resistor, 18ks		1/4W	Q720	1	1	1	HD20002210	Diode,	1S2472 (Gr)
R773	1	1	1	RT05682140	Resistor, 6.8ks		1/4W	Q721	1	1	1	HT315672B0	Transistor,	2SC1567 Q, R
1	1:		1	RT05393140	Resistor, 39ks		1/4W	Q722	1	1	1	HT107942B0	Transistor,	2SA794 Q, R
R774	1	1					1/4W	Q723	1	1	1	HT315672B0	Transistor,	2SC1567 Q, R
R775	1	1	1	RT05184140	Resistor, 180ks	1576	/4**							
R776	1	1	1	GJ05331010	Resistor, 3300	±5%	1W	Q724		1	1	HT107942B0	Transistor,	2SA794 Q,R
P711	5	5	5	75061251P0		5 mm		Q725		1	1	HD20002210	Diode,	1S2472 (Gr)
	1 .	1 .	1 -				25V	Q726	1	1	1	HD20002210	Diode,	1S2472 (Gr)
C701	1	1	1	EE33502510				Q727	1	1	1	HD20002210	Diode,	1S2472 (Gr)
C702		1	1	EE33502510			50V	Q728		1	1	HD20002210	Diode,	1S2472 (Gr)
C703		1		DD16201010				0729		i	1	HV00003120	Diode,	MV-13
C704		1	1	DD16201010			50V	0730		i	1	HV00003120	Diode,	MV-13
C705		1	1	EE47601620			16V	Q731		i	1	HD20005010	Diode,	W06B
C706	1	1	1	EE47601620	Electrolytic Cap., 47µF	±20%				1	1			
C707	1	1	1	DD10030500	Ceramic Cap., 3pf	•	500V	Q732		1	1	HD20005010	Diode,	W06B
C708	1	1	1	DD10030500	Ceramic Cap., 3pf	=	500V	Q733	1	1	1	HD20005010	Diode,	W06B
C709	1	1	1	EA47605090	Electrolytic Cap., 47µl	+100%	50V	Q734	1	1	1			W06B
C710		1	i			+100 %	50V	Q735	1	1	1	HH00003030	Thermistor,	STD-04
						= ±10%		Q736		1	1	HH00003030		STD-04
C711		1		DF16103050				Q737		1	1	HD30030090		WZ-177
C712			1			±10%		0738			1	HT309452A0		2SC945 Q, R
C713		1		DF16103050		±10%		Q739			1	HT309452A0		2SC945 Q, R
C714			1			= ±10%		Q740		1	1	HT313182C0	Transistor,	2SC1318 R, S
C715	1	1	1	DF17104010	Film Cap., 0.1µ	-	50V	4/40	1'	'	Ι'	17131310200	rialisistor,	200101011,9
1										1				
1										1				
		1		1					1					
			1											

• (U) for U.S.A. • (C) for Canada • (E) for Europe

REF. DESIG.		T)	E	PART NO.	DESCR	IPTION
	Ť	<u> </u>	-			
Q741	1	1	1	HD20003210	Diode,	1S2471 (BI)
L701	i	1	1	LC22620010	Coil,	2.6µH
L702	1	1	1	LC22620010	Coil,	2.6µH
L702	1	i	1		Relav	210/211
J701	'	'		L120240030	Itelay	
	20	29	20	YP10001130	Plug	
√ J729	29	23	25	1110001130	i iug	
J/29						
1					P800 POWER SUP	PLY BOARD
P800	1	1	1	YA22040310	P.W. Board	
. 555	1	i	i	ZZ22040310	P.W. Board Assemb	olv
	Ι.	'	۱ ٔ ۱			•
P808	10	10	10	2933118020	Spacer	
R801	1	1	1	GJ05220020	Resistor,	22Ω ±5% 2W
R802	1	1	1	GF05100140	Resistor,	10Ω ±5% ¼W
R803	1	1	1	RT05152140		.5kΩ ±5% ¼W
R804	1	1	1	RT05152140		.5kΩ ±5% ¼W
R805	1	1	1	GJ05221030		220Ω ±5% 3W
R806	1	1	1	RT05363140		36kΩ ±5% ¼W
R807	1	1	1	RT05273140		27kΩ ±5% ¼W
R808	1	1	i	RA05020130	Trimming Resistor	$,$ $5k\Omega$ (B)
P811	1	1	1	75061251P0	Jumper,	•
	١.		'	, 00012011	,	
C801	1	1	1	DK18103510	Ceramic Cap.,	0.01µF 500V
C802	1	1	1	EA47706310	Electrolytic Cap.,	470µF 63V
C803	1	1	1	EA47705090	Electrolytic Cap.,	470µF 50V
C804	1	1	1	EA10705090	Electrolytic Cap.,	100µF 50V
C805	1	1	1	DF17473050	Film Cap.,	0.047µF 50V
C806	1	1	1	DK18403020	Ceramic Cap.,	0.04µF 50V
C807	1	1	1	EA33505090	Electrolytic Cap.,	3.3µF 50V
C808	1	1	1	EA47701690	Electrolytic Cap.,	470µF 16V
C809	1	1	1	EA10801090	Electrolytic Cap.,	1000μF 10V
Q801	1	1	1	HD20012030	Diode,	DS132B
Q802	1	1	1	HD20011030	Diode,	DS131B
Q803	1	1	1	HT403302A0	Transistor,	2SD330 D, E
Q804	1	1	1	HT309452A0	Transistor,	2SC945 Q, R
Q805	1	1	1	HD30021090	Transistor, Transistor, Diode,	BZ-140 14V
Q806	1	1	1	HD20004130	Diode,	S1B01-02
J801						
	14	14	14	YP10001140	Plug	
J814						
J815		١.	١.	V 1000000140	Carles	Fuse
}	4	4	4	YJ08000210	Socket,	ruse
J818						
E004		-		EC10100000	Fuce	MGC 1A 30mm
F801		1	- 1	FS10100080	Fuse,	MGC 2A 30 mm
F802	1	1	- 1	FS10200060	Fuse, Fuse.	SGA 1A 20 mm
F801			1		Fuse,	SGA 2A 20 mm
F802			1	F310200300	1 436,	307. 27. 20.11111
					PEO1 PRE-TONE	AMP, BOARD
PE01	1	1	1	YD29151082	P.W. Board	
. 201	1		- 1		P.W. Board Assem	nbly
	1'	'	1			
PE08	2	2	2 2	2933118020	Spacer	
RE01		1 -	- 1	RT05474140		470kΩ ±5% ¼W
RE02		- 1 '		RT05474140	-	470kΩ ±5% ¼W
RE03				RT05391140		390Ω ±5% ¼W
RE04		- 1 '				390Ω ±5% ¼W
RE05	1	- 1		RN05105140	1	1MΩ ±5% ¼W
	Ι.		1			
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REF.	-	ľΤ	~	I	PART NO.	DE	SCRIPTION	ı,	
DESIG.	U	С	1	E					$\dashv$
							4140	. = 0/	1/14/
RE06		1	- 1	٠ ا	RN05105140	Resistor,	1ΜΩ	±5%	1/W
RE07	1	1	- 1	1	RN05104140	Resistor,	100kΩ	±5%	1/W
RE08		1			RT05103140	Resistor,	10kΩ	±5%	1/W
RE09	1	1	- 1		RT05273140	Resistor,	27kΩ	±5%	1/W
RE10		1	1	1	RT05273140	Resistor,	27kΩ	±5%	1/4W
RE11	1	1	- 1		RT05102140	Resistor,	1kΩ	±5%	1/4W 1/4W
RE12		1	1	1	RT05102140	Resistor,	1kΩ	±5%	1/4W
RE13	1	1		1	RT05752140	Resistor,	7.5kΩ	±5% ±5%	1/4W
RE14	1	1	- 1	1	RT05752140	Resistor,	7.5kΩ	±5%	1/4W
RE15	1	1	1	1	RT05102140	Resistor,	1kΩ	13%	/444
RE16	1	1		1	RT05102140	Resistor,	1kΩ	±5%	1/4W
RE17		1	1	i	RT05474140	Resistor,	470kΩ	±5%	14W
RE18	1	1		i	RT05474140	Resistor,	470kΩ	±5%	1/4W
RE19	1	1	- 1	1	RT05562140	Resistor,	$5.6k\Omega$	±5%	1/4W
RE20	1	li		1	RT05562140	Resistor,	$5.6k\Omega$	±5%	1/4W
RE21	1	li		il	RT05123140	Resistor,	12kΩ	±5%	14W
RE22		li	- 1	il	RT05123140	Resistor,	12kΩ	±5%	1/4W
RE23		i	- (	il	RT05334140	Resistor,	330k $\Omega$	±5%	14W
RE24	1	li	- 1	1	RT05334140	Resistor,	330kΩ	±5%	1/4W
RE25	1	li		il	RT05562140	Resistor,	$5.6k\Omega$	±5%	1/4W
	1								
RE26	1	1		1	RT05562140	Resistor,	$5.6$ k $\Omega$	±5%	1/4W
RE27	1	1		1	RT05562140	Resistor,	$5.6$ k $\Omega$	±5%	1/4W
RE28	1	1		1	RT05562140	Resistor,	$5.6$ k $\Omega$	±5%	1/4W
RE29	1	1	-	1	RT05273140	Resistor,	27kΩ	±5%	1/4W
RE30	1	1	-	1	RT05273140	Resistor,	27kΩ	±5%	1/4W
RE31	1	1		1	RT05123140	Resistor,	12kΩ	±5%	1/4W
RE32	1	1		1	RT05123140	Resistor,	12kΩ	±5%	1/4W
RE33	1	1	1	1	RT05153140	Resistor,	15kΩ	±5%	1/4W
RE34	1	1		1	RT05153140	Resistor,	15kΩ	±5%	1/4W
RE35	1	1		1	RT05334140	Resistor,	$330k\Omega$	±5%	1/4W
					DT05004440	Danista.	330kΩ	±5%	14W
RE36	1	1	- 1	1	RT05334140	Resistor,	27kΩ	±5%	1/4W
RE37		1		1	RT05273140	Resistor,	27kΩ	±5%	1/4W
RE38	1	1	- 1	1	RT05273140	Resistor,	2.2MΩ	±5%	1/4W
RE39	1	1		1	RT05225140	Resistor,	2.2MΩ	±5%	1/4W
RE40	1 .	1	- 1	1	RT05225140	Resistor,	68kΩ	±5%	1/4W
RE41		1	- 1	1	RT05683140	Resistor,	68kΩ	±5%	1/4W
RE42		1		1	RT05683140	Resistor,	47kΩ	±5%	1/4W
RE43	1	1	- 1	1	RT05473140	Resistor,	47kΩ	±5%	1/4W
RE44	- 1	1		1	RT05473140	Resistor,	10kΩ	±5%	1/4W
RE45	1	1	1	1	RT05103140	Resistor,	10832	1070	/
RE46	1	1	.	1	RT05103140	Resistor,	10kΩ	±5%	1/4W
RE47		1	- 1	1	RT05221140	Resistor,	22012	±5%	1/4W
RE48	1 -	- 1	. (	1	RT05221140	Resistor,	$220\Omega$	±5%	1/4W
RE49	-		- 1	1	RT05474140	Resistor,	470kΩ		1/4W
RE50	1	- 1		1	RT05474140	Resistor,	470kΩ	±5%	1/4W
RE51	- 1	- 1	,	1	RD01040052	Variable Resi		Ω (B)	High
RE52				i	RD01040052	Variable Resi	stor 100k	Ω (B)M	liddle
RE53	1	- 1	i	i	RD01040052	Variable Resi		Ω (B)	Low
RE54		- 1	il	1	RT05821140	Resistor,	820Ω	±5%	1/4W
RE5		- 1	il	i	RC00000120	Resistor,	$\Omega$ 0		
1	1		-	•			- **		
RE56	3 1	1.	1	1	RC00000120	Resistor,	$\Omega$ 0		
CE01	- 1	1.	1	1	DF17224050	Film Cap.,	0.22µF		50V
CEO			1	1	DF17224050	Film Cap.,	0.22µF	±20%	50V
CE03	•	- 1	1	1	EA10603590	Electrolytic (	Cap., 10μF	+100 %	35V
CE04		1	1	1	EA10603590	Electrolytic (	Cap., 10µF	- 10 %	35V
CEO	1	1	1	1	EE47502510	Electrolytic (	Cap., 4.7µF	±20%	25V
CEO			1	1	EE47502510	Electrolytic (	Cap., 4.7μF	±20%	25V
1									

	<ul> <li>(C) for Canada</li> </ul>
	<ul> <li>(E) for Europe</li> </ul>

REF. DESIG.		C		PART NO.	DESCRIPTION	REF. DESIG		Q'T C		PART NO.	DESCRIPTION
		Ť		-							
CE07	1	1	1	DD16101010	Ceramic Cap., 100pF ±10% 50V	RH01			1	RT05102140	Resistor, 1kΩ ±5% ¼W
CE08	1	1	1	DD16101010	Ceramic Cap., 100pF ±10% 50V	RH02	1		1	RT05102140	Resistor, $1k\Omega \pm 5\%$ ½W
CE09	1	1	1	DF16222050	Film Cap., 0.0022µF ±10% 50V	RH04	1		1	RT05105140	Resistor, $1M\Omega \pm 5\%$ ¼W
CE10		1	1	DF16222050	Film Cap., 0.0022µF ±10% 50V	RH05			1	RT05105140	Resistor, $1M\Omega \pm 5\%$ %W
CE11		1	1	DF16472050	Film Cap., 0.0047μF ±10% 50V	RH06			1	RT05472140	Resistor, $4.7k\Omega \pm 5\%$ ½W
CE12		1	1	DF16472050	Film Cap., 0.0047µF ±10% 50V	RH07			1	RT05472140 RT05225140	Resistor, 4.7k $\Omega$ ±5% ¼W Resistor, 2.2M $\Omega$ ±5% ¼W
CE13		1	1	DF16223050	Film Cap., 0.022µF ±10% 50V Film Cap., 0.022µF ±10% 50V	RH09	1		1	RT05225140	Resistor, 2.2M $\Omega$ ±5% ¼W Resistor, 2.2M $\Omega$ ±5% ¼W
CE14		1	1 1	DF16223050		CH01		l	1	DF16333050	Film Cap., 0.033µF ±10% 50V
CE15 CE16		1		DF16223050 DF16223050	Film Cap., $0.022\mu F \pm 10\% 50V$ Film Cap., $0.022\mu F \pm 10\% 50V$	CH02			1	DF16333050	Film Cap., 0.033µF ±10% 50V
CEIO		•		DF 10223050	1 IIII Cap., 0.022µ1 ±10% 50V	002			'	B. 10000000	1 mm dup., 0.000 pr. 1 10 10 10 10 10 10 10 10 10 10 10 10 1
CE17	1	1	1	DF16822050	Film Cap., 0.0082µF ±10% 50V	CH03			1	DF16682050	Film Cap., 0.0068µF ±10% 50V
CE18		1	1	DF16822050	Film Cap., 0.0082µF ±10% 50V	CH04			1	DF16682050	Film Cap., 0.0068µF ±10% 50V
CE19		1	1	EE10505010	Electrolytic Cap., 1µF ±20% 50V	SH01			1	SP04040130	Push Switch
CE20	1	1	1	EE10505010	Electrolytic Cap., 1µF ±20% 50V	JH01					
CE21	1	1	1	EE33505010	Electrolytic Cap., 33µF ±10% 50V	\ \			17	YP10001200	Plug
CE22		1	1	EE33505010	Electrolytic Cap., 33µF ±10% 50V	JH17					
CE23	ι. Ι	1	1	EQ10505010	Electrolytic Cap., 1µF ±30% 50V		1				
CE24	1	1	1	EQ10505010	Electrolytic Cap., 1µF ±30% 50V	DTOC	1.			VD00451165	PT01 SYSTEM 1-SYSTEM 2 BOARD
CE25	1 !	1	1	EA22703590	Electrolytic Cap., 220µF ± 100 % 35V	PT01	1	1	1	YD29151100	P.W. Board
HE01	1	1	1	HT313283A0	Transistor, 2SC1328 S, T, U		1	1	1	ZZ29153100	P.W. Board Assembly
HE02	1	1	1	HT313283A0	Transistor, 2SC1328 S, T, U	PT07	4	4	4	3444118050	Spacer
HE03		1	1	HT107222A0	Transistor, 2SA722 S, T	RT01	1	1	1	RT05683140	Resistor, $68k\Omega \pm 5\%$ ½W
HE04	1	1	1	HT107222A0	Transistor, 2SA722 S, T	RT02	1	1	1	RT05683140	Resistor, $68k\Omega \pm 5\%$ %W
HE05	1	1	1	HT313283A0	Transistor, 2SC1328 S, T, U	RT03	1	1	1	RT05153140	Resistor, $15k\Omega \pm 5\%         $
HE06		1	1	HT313283A0	Transistor, 2SC1328 S, T, U	RT04	1	1	1	RT05153140	Resistor, $15k\Omega \pm 5\%$ %W
HE07		1	1	HT107222A0	Transistor, 2SA722 S, T	RT05	1	1	11	GJ05331020	Resistor, $330\Omega \pm 5\% 2W$
HE08	1	1	1	HT107222A0	Transistor, 2SA722 S, T	RT06	1	1	1	GJ05331020	Resistor, $330\Omega \pm 5\% 2W$ Resistor, $150\Omega \pm 5\% 2W$
JE01	_				-	RT07		1	1 1	GU05151120 GU05151120	Resistor, $150\Omega \pm 5\%$ ½W Resistor, $150\Omega \pm 5\%$ ½W
JE08	8	8	8	YP10001130	Plug	CT01	1	1	1	DD16121010	Ceramic Cap., 120pF ±10% 50V
					BUOL SULTED BOLDY BOARD	CT02	1	1	1	DD16121010	Ceramic Cap., 120pF ±10% 50V
PH01	1	1		YD29151090	PH01 FILTER, DOLBY BOARD P.W. Board	CT03		i	11	DF16273050	Film Cap., 0.027µF ±10% 50V
FHOI	1	1		ZZ22041090	P.W. Board Assembly	CT04	1	1	11	DF16273050	Film Cap., 0.027µF ±10% 50V
	١.	•		2222041030	F.W. Board Assembly	ST01	1	1	11	SP04040110	Push Switch
RH01	1	1		RT05102140	Resistor, 1kΩ ±5% ¼W	JT01					
RH02	1	1		RT05102140	Resistor, 1kΩ ±5% ¼W	- }	16	16	16	YP10001200	Plug
RH04	1	1		RT05105140	Resistor, $1M\Omega \pm 5\%$ %W	JT16					
RH05		1		RT05105140	Resistor, 1MΩ ±5% ¼W						
RH06	1	1		RT05472140	Resistor, $4.7k\Omega \pm 5\% \%W$						PZ01 DIAL LAMP BOARD
RH07		1		RT05472140	Resistor, $4.7k\Omega \pm 5\%$ ½W	PZ01	1	1	1	YD28860160	P.W. Board
RH08		1		RT05225140	Resistor, $2.2M\Omega \pm 5\%$ ¼W		1	1	1	ZZ28891160	P.W. Board Assembly
RH09		1		RT05225140	Resistor, $2.2M\Omega \pm 5\%$ ¼W						
CH01		1		DF15222050	Film Cap., 0.0022µF ±10% 50V	MZ01	-	=		INI10000070	Lama
CH02	1	1		DF15222050	Film Cap., 0.0022μF ±10% 50V	MZ05	5	5	5	IN10080070	Lamp
CH03	1	1		DF16682050	Film Cap., 0.0068µF ±10% 50V	JZ01					
CH04		1		DF16682050	Film Cap., 0.0068µF ±10% 50V	1 3201	10	10	10	YJ08000170	Socket
CH05		1		EV22403510	Electrolytic Cap., 0.22µF ±20% 35V	JZ10	."	1.0	1.4	. 500000170	
CH06		1		EV22403510	Electrolytic Cap., 0.22µF ±20% 35V	JZ11					
SH01		1		SP04040140	Push Switch	₹	4	4	4	YP10001200	Plug
JH01		1		YP10001200	Plug	JZ14					, and the second
JH02	•	1		YP10001200	Plug	M001	1	1	1	IM11042270	DC Meter
JH09	1										
	20	20	20	YP10001200	Plug	M002	1	1	1	IM11042240	DC Meter
JH28						M003	1	1		IN10080340	Lamp
						M005	1	1	1 1	IN10080070	Lamp
DUGS			ا ہ	\/D0047555	PH01 LOW, HI-FILTER BOARD	M006	1	1	1 1	IN10080070	Lamp
PH01			1	YD29150050		L001	1	1		LF11200460	Ant. Coil
			1	ZZ22048 050	P.W. Board Assembly	L002	1	1	1	LC11540020	Choke Coil
		L				L	_				

- (U) for U.S.A.(C) for Canada(E) for Europe

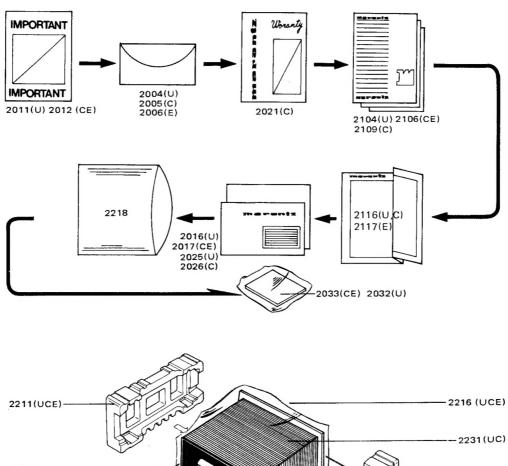
				• (E) for Europe					
١	REF.	_	YT'		PART NO.	DESCRI	PTION		
ı	DESIG.	U	С	E	17.11				
ı	L003	1	1	1	TS60505010	Power Transformer			
ı	L003			1	TS60505020	Power Transformer			
1	S001	1	1	1	SP02010150	Power Switch	0.04 5 501/		
٠	C001	1	1	1	DK18103010	Ceramic Cap.,	0.01μF 50V 0.01μF 50V		
1	C002	1	1	1	DK18103010	Ceramic Cap.,	0.01μF 50V 10000μF 50V		
ı	C003	1	1	1	EC10905020	Electrolytic Cap., Electrolytic Cap.,	10000μF 50V		
	C004 C006	1	1	1	EC10905020 DF17473590	Film Cap.,	0.047µF		
١	C006		'	1	DF17473390	Film Cap.,	0.022µF1000V		
	C007	1	1	i	DK18103510	Ceramic Cap.,	0.01µF 500V		
	0007	Ι'	Ι'	'	BICIOTOGOIG	Coramine Capity			
	G001	1			BF10400040	Printed Comp.			
ı	R001	1	1	1	RS05040050	Variable Resistor,	500k $\Omega$ Bal.		
1	R002	1	1	1	RM02540220	Variable Resistor,	250k $\Omega$ Vol.		
	R003	1	1		RC10225120	Resistor,	2.2MΩ ½W		
1	H007	1	1	1	HD20004290	Diode,	S5VB		
	J001	1	1	1	BY04050010	Terminal			
	J002	1	1	1	YL01020030	Terminal			
	1003	1	1	1	YT01010050	Terminal			
	J004	1	1	1	YT02040140	Terminal			
	J005	1	1	1	YT02040140	Terminal			
١	1000			١.	VT00040440	T			
	J006	1	1	1	YT02040140	Terminal			
1	J007	1	1	1	YT02040170	Terminal			
ļ	J008	1	1	1	YT02010130	Terminal			
	J009	1	1	1	YJ05000220	Socket			
	J010	1	1	1	YJ05000220	Socket			
	J011	1	1	1	YJ05000220	Socket Socket			
J	J012	1		1	YJ05000220	Terminal			
1	J013	1	1	1	YT03040160	Terminal			
	J014	1	1	1	YT03040160	Jack			
	J015	1	'	1	YJ01000980	Jack			
	J016	1	1	1	YJ08000190	Socket			
	J017	i	1	i	YJ08000190	Socket			
1	J018	i	1	Ι'	YJ08000120	Socket			
	J018	١.	'	1	YJ08000220	Socket			
	J019	1	1	1	YJ04000560	Socket			
	J020	1	1	1		Socket			
	J021			1	BY03110010	Terminal			
	H001	1	1	1	HT313432B0	Transistor,	2SC1343 B, C		
	H003	1	1	1	HT107532B0	Transistor,	2SA753 B, C		
	H002	1	1	1	HT313432B0	Transistor,	2SC1343 B, C		
	H004	1	1	1		Transistor,	2SA753 B, C		
	H005	1	1	1					
	H006	1	1	1	HV00005080	Varistor			
	W001	1	1		YC02400220	AC Cord			
	W001			1	YC01900030	AC Cord			
	F001			1	FS10400900	Fuse			
	F001	1	1		FS10500040	Fuse			
	F002		1		FS20500900	Fuse			
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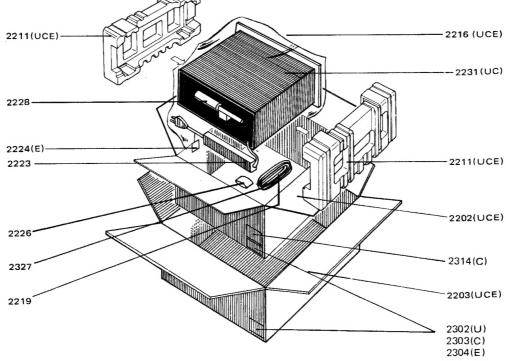
## 22. TECHNICAL SPECIFICATIONS

Amplifier Section
RATED POWER OUTPUT, MINIMUM CONTINUOUS AVERAGE POWER
PER CHANNEL, BOTH CHANNELS DRIVEN
POWER BAND
TOTAL HARMONIC DISTORTION 0.1%
LOAD IMPEDANCE 8 OHMS
Maximum Power Output, DIN 45500
(less than 1% THD, 10 min. test)  Power Bandwidth at 1% THD, DIN 45500
I.M. Distortion (I.H.F. method, 60 Hz and 7 kHz mixed 4:1 at rated power output)
Damping Factor
Sensitivity (at MAIN IN)
Impedance (at MAIN IN)         30 kOhms           Frequency Response for Power Amp only         ±0.2 dB
(at 1 watt output, 20 Hz to 20 kHz)
Preamplifier Section Phono
Input Overload at 1 kHz
Equivalent Input Noise
Dynamic Range 96 dB
(Dynamic Range is the ratio of input overload to equivalent input noise)  Input Sensitivity
Input Impedance
Frequency Response, RIAA 20 Hz to 20 kHz
Signal-to-Noise Ratio
Signal-to-Noise Ratio, unweighted (DIN 45500)
High Level (Aux and Tape)
Input Sensitivity
Frequency Response (includes power amp.)
Signal-to-Noise Ratio
(ref. to rated output and 775 mV input) Output Levels
Tape Out (ref. 7.75 mV at Phono inputs) 775 mV
Pre-Out (ref. 180 mV at Aux inputs)
(ref. 500 mV at Aux inputs, main amp disconnected)
Output Impedance Tape Out
Pre-Out 900 Ohms
FM Tuner Section Sensitivity
IHF Usable
IHF 50 dB Quieting
(Mono)
(Stereo)
(Mono, 26 dB S/N, 300 ohm input)
(Stereo, 46 dB S/N, 300 ohm input)
Quieting Slope (Mono) RF Input for 30 dB Quieting
Quieting at:
20 dBf( 5.5 μV)
25 dBf( 10 μV)
65 dBf (1000 μV)

Quieting Slope (Stereo)	
Quieting at:	40 40
30 dBf ( 17 μV)	40 dB
40 dBf ( 55 μV)	50 dB
50 dBf ( 173 μV)	56 dB
65 dBf (1000 μV)	62 dB
Distortion (Mono)	0.0.0/
at 50 dB Quieting, 1000 Hz	0.0 %
at 65 dBf (1000 µV), 1000 Hz	0.15%
Hum and Noise	
at 65 dBf (1000 μV)	
Mono	_70dB
Frequency Response	
30 Hz to 15 kHz	
Mono+0.2, -	-2.0 dB
Stereo	±2.0 dB
Capture Ratio	
at 45 dBf ( 100 μV)	1.5 dB
at 65 dBf (1000 µV)	1.0 dB
Alternate Channel Selectivity	70 dB
Spurious Response Rejection	90 dB
Image Response Rejection	70 dB
I.F. Rejection (Balanced)	95 dB
A.M. Suppression	50 dB
Stereo Separation	
100 Hz	42 dB
1000 Hz	45 dB
10 kHz	32 dB
Subcarrier Rejection	60 dB
AM Tuner Section	
IHF Usable Sensitivity	20 μV
IHF Usable Sensitivity	0.6%
IHF Usable Sensitivity  Distortion (THD), 30% Modulation  Signal-to-Noise Ratio	. 0.6% 49 dB
IHF Usable Sensitivity  Distortion (THD), 30% Modulation  Signal-to-Noise Ratio  Frequency Response (±3 dB)	0.6% 49 dB 2.3 kHz
IHF Usable Sensitivity Distortion (THD), 30% Modulation Signal-to-Noise Ratio Frequency Response (±3 dB) Alternate Channel Selectivity	. 0.6% 49 dB 2.3 kHz 46 dB
IHF Usable Sensitivity  Distortion (THD), 30% Modulation  Signal-to-Noise Ratio  Frequency Response (±3 dB)  Alternate Channel Selectivity  Image Rejection	0.6% 49 dB 2.3 kHz 46 dB 45 dB
IHF Usable Sensitivity Distortion (THD), 30% Modulation Signal-to-Noise Ratio Frequency Response (±3 dB) Alternate Channel Selectivity	0.6% 49 dB 2.3 kHz 46 dB 45 dB 50 dB
IHF Usable Sensitivity  Distortion (THD), 30% Modulation  Signal-to-Noise Ratio  Frequency Response (±3 dB)  Alternate Channel Selectivity  Image Rejection	0.6% 49 dB 2.3 kHz 46 dB 45 dB
IHF Usable Sensitivity  Distortion (THD), 30% Modulation  Signal-to-Noise Ratio  Frequency Response (±3 dB)  Alternate Channel Selectivity  Image Rejection  Spurious Response Rejection	0.6% 49 dB 2.3 kHz 46 dB 45 dB 50 dB
IHF Usable Sensitivity  Distortion (THD), 30% Modulation  Signal-to-Noise Ratio  Frequency Response (±3 dB)  Alternate Channel Selectivity  Image Rejection  Spurious Response Rejection  I.F. Rejection  General	0.6% 49 dB 2.3 kHz 46 dB 45 dB 50 dB 40 dB
IHF Usable Sensitivity Distortion (THD), 30% Modulation Signal-to-Noise Ratio Frequency Response (±3 dB) Alternate Channel Selectivity Image Rejection Spurious Response Rejection I.F. Rejection  General Power Requirements  220 V	0.6% 49 dB 2.3 kHz 46 dB 45 dB 50 dB 40 dB
IHF Usable Sensitivity  Distortion (THD), 30% Modulation  Signal-to-Noise Ratio  Frequency Response (±3 dB)  Alternate Channel Selectivity  Image Rejection  Spurious Response Rejection  I.F. Rejection  General  Power Requirements  (E and N versions are featuring an external voltage selector for use on 110/120/240 V. Other version	0.6% 49 dB 2.3 kHz 46 dB 45 dB 50 dB 40 dB
IHF Usable Sensitivity  Distortion (THD), 30% Modulation  Signal-to-Noise Ratio  Frequency Response (±3 dB)  Alternate Channel Selectivity  Image Rejection  Spurious Response Rejection  I.F. Rejection  General  Power Requirements  (E and N versions are featuring an external voltage selector for use on 110/120/240 V. Other version converted by a qualified technician to operate on 110/120	0.6% 49 dB 2.3 kHz 46 dB 45 dB 50 dB 40 dB ~ 50 Hz s can be /240 V.)
IHF Usable Sensitivity  Distortion (THD), 30% Modulation  Signal-to-Noise Ratio  Frequency Response (±3 dB)  Alternate Channel Selectivity  Image Rejection  Spurious Response Rejection  I.F. Rejection  General  Power Requirements  (E and N versions are featuring an external voltage selector for use on 110/120/240 V. Other version converted by a qualified technician to operate on 110/120.  Power Consumption at rated output, both channels operating	0.6% 49 dB 2.3 kHz 46 dB 45 dB 50 dB 40 dB ~ 50 Hz s can be (240 V.)
IHF Usable Sensitivity  Distortion (THD), 30% Modulation  Signal-to-Noise Ratio  Frequency Response (±3 dB)  Alternate Channel Selectivity  Image Rejection  Spurious Response Rejection  I.F. Rejection  General  Power Requirements  (E and N versions are featuring an external voltage selector for use on 110/120/240 V. Other version converted by a qualified technician to operate on 110/120/240 Power Consumption at rated output, both channels operating  22 Idling Power (Volume Control at zero)	0.6% 49 dB 2.3 kHz 46 dB 45 dB 50 dB 40 dB ~ 50 Hz s can be /240 V.)
IHF Usable Sensitivity  Distortion (THD), 30% Modulation  Signal-to-Noise Ratio  Frequency Response (±3 dB)  Alternate Channel Selectivity  Image Rejection  Spurious Response Rejection  I.F. Rejection  General  Power Requirements  (E and N versions are featuring an external voltage selector for use on 110/120/240 V. Other version converted by a qualified technician to operate on 110/120/240 V. Other version converted by a qualified technician to operate on 110/120/240 V. Other version converted by a qualified technician to operate on 110/120/240 V. Other version converted by a qualified technician to operate on 110/120/240 V. Other version converted by a qualified technician to operate on 110/120/240 V. Other version converted by a qualified technician to operate on 110/120/240 V. Other version converted by a qualified technician to operate on 110/120/240 V. Other version converted by a qualified technician to operate on 110/120/240 V. Other version converted by a qualified technician to operate on 110/120/240 V. Other version converted by a qualified technician to operate on 110/120/240 V. Other version converted by a qualified technician to operate on 110/120/240 V. Other version converted by a qualified technician to operate on 110/120/240 V. Other version converted by a qualified technician to operate on 110/120/240 V. Other version converted by a qualified technician to operate on 110/120/240 V. Other version converted by a qualified technician to operate on 110/120/240 V. Other version converted by a qualified technician to operate on 110/120/240 V. Other version converted by a qualified technician to operate on 110/120/240 V.	0.6% 49 dB 2.3 kHz 46 dB 45 dB 50 dB 40 dB ~ 50 Hz s can be (240 V.) 20 Watts 33 Watts
IHF Usable Sensitivity  Distortion (THD), 30% Modulation  Signal-to-Noise Ratio  Frequency Response (±3 dB)  Alternate Channel Selectivity  Image Rejection  Spurious Response Rejection  I.F. Rejection  General  Power Requirements  (E and N versions are featuring an external voltage selector for use on 110/120/240 V. Other version converted by a qualified technician to operate on 110/120/240 V. Other version deling Power (Volume Control at zero)  Semiconductor Complement  Integrated Circuits	. 0.6% 49 dB 2.3 kHz 46 dB 45 dB 50 dB 40 dB ~ 50 Hz s can be (240 V.) 20 Watts 33 Watts
IHF Usable Sensitivity  Distortion (THD), 30% Modulation  Signal-to-Noise Ratio  Frequency Response (±3 dB)  Alternate Channel Selectivity  Image Rejection  Spurious Response Rejection  I.F. Rejection  General  Power Requirements  (E and N versions are featuring an external voltage selector for use on 110/120/240 V. Other version converted by a qualified technician to operate on 110/120.  Power Consumption at rated output, both channels operating  Idling Power (Volume Control at zero)  Semiconductor Complement  Integrated Circuits  Transistors	. 0.6% 49 dB 2.3 kHz 46 dB 45 dB 50 dB 40 dB ~ 50 Hz s can be (240 V.) 20 Watts 33 Watts 45
IHF Usable Sensitivity  Distortion (THD), 30% Modulation  Signal-to-Noise Ratio  Frequency Response (±3 dB)	. 0.6% 49 dB 2.3 kHz 46 dB 45 dB 50 dB 40 dB ~ 50 Hz s can be (240 V.) 20 Watts 33 Watts 45 29
IHF Usable Sensitivity Distortion (THD), 30% Modulation Signal-to-Noise Ratio Frequency Response (±3 dB) Alternate Channel Selectivity Image Rejection Spurious Response Rejection I.F. Rejection  General Power Requirements (E and N versions are featuring an external voltage selector for use on 110/120/240 V. Other version converted by a qualified technician to operate on 110/120. Power Consumption at rated output, both channels operating Integrated Circuits Transistors Diodes Field Effect Transistors	. 0.6% 49 dB 2.3 kHz 46 dB 45 dB 50 dB 40 dB ~ 50 Hz s can be (240 V.) 20 Watts 33 Watts 45 29
IHF Usable Sensitivity Distortion (THD), 30% Modulation Signal-to-Noise Ratio Frequency Response (±3 dB) Alternate Channel Selectivity Image Rejection Spurious Response Rejection I.F. Rejection  General Power Requirements (E and N versions are featuring an external voltage selector for use on 110/120/240 V. Other version converted by a qualified technician to operate on 110/120, Power Consumption at rated output, both channels operating Integrated Circuits Transistors Diodes Field Effect Transistors Dimensions	. 0.6% 49 dB 2.3 kHz 46 dB 50 dB 40 dB ~ 50 Hz s can be (240 V.) 20 Watts 33 Watts 45 29 1
IHF Usable Sensitivity Distortion (THD), 30% Modulation Signal-to-Noise Ratio Frequency Response (±3 dB)	. 0.6% 49 dB 2.3 kHz 46 dB 45 dB 50 dB 40 dB ~ 50 Hz s can be (240 V.) 20 Watts 33 Watts 45 29 1
IHF Usable Sensitivity Distortion (THD), 30% Modulation Signal-to-Noise Ratio Frequency Response (±3 dB)	. 0.6% 49 dB 2.3 kHz 46 dB 45 dB 50 dB 40 dB ~ 50 Hz s can be (240 V.) 20 Watts 33 Watts 45 29 1
IHF Usable Sensitivity Distortion (THD), 30% Modulation Signal-to-Noise Ratio Frequency Response (±3 dB) Alternate Channel Selectivity Image Rejection Spurious Response Rejection I.F. Rejection  General Power Requirements (E and N versions are featuring an external voltage selector for use on 110/120/240 V. Other version converted by a qualified technician to operate on 110/120 Power Consumption at rated output, both channels operating 22 Idling Power (Volume Control at zero) Semiconductor Complement Integrated Circuits Transistors Diodes Field Effect Transistors Dimensions Panel Width Panel Height 137 mm (5-3/8) Depth 365 mm (14-3/8)	. 0.6% 49 dB 2.3 kHz 46 dB 45 dB 50 dB 40 dB ~ 50 Hz s can be (240 V.) 20 Watts 33 Watts 45 29 1
IHF Usable Sensitivity Distortion (THD), 30% Modulation Signal-to-Noise Ratio Frequency Response (±3 dB) Alternate Channel Selectivity Image Rejection Spurious Response Rejection I.F. Rejection  General Power Requirements (E and N versions are featuring an external voltage selector for use on 110/120/240 V. Other version converted by a qualified technician to operate on 110/120, Idling Power (Volume Control at zero) Semiconductor Complement Integrated Circuits Transistors Diodes Field Effect Transistors Dimensions Panel Width Panel Height Depth 137 mm (5-3/4) Weight	. 0.6% 49 dB 2.3 kHz 46 dB 45 dB 50 dB 40 dB ~ 50 Hz s can be (240 V.) 20 Watts 33 Watts 45 29 1 linches) 3 inches) 3 inches)
IHF Usable Sensitivity Distortion (THD), 30% Modulation Signal-to-Noise Ratio Frequency Response (±3 dB) Alternate Channel Selectivity Image Rejection Spurious Response Rejection I.F. Rejection  General Power Requirements (E and N versions are featuring an external voltage selector for use on 110/120/240 V. Other version converted by a qualified technician to operate on 110/120.  Power Consumption at rated output, both channels operating Idling Power (Volume Control at zero) Semiconductor Complement Integrated Circuits Transistors Diodes Field Effect Transistors Dimensions Panel Width Panel Height 137 mm (5-3/4) Depth Weight Unit alone 14 kg (3	. 0.6% 49 dB 2.3 kHz 46 dB 45 dB 50 dB 40 dB ~ 50 Hz s can be (240 V.) 20 Watts 33 Watts 45 29 1

## 23. PACKING MATERIAL EXPLODED VIEW





- (U) for U.S.A.(C) for Canada(E) for Europe



## man partz

MARANTZ CO., INC.  $\cdot$  P. O. BOX 577  $\cdot$  CHATSWORTH, CALIFORNIA  $\cdot$  91311

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